

?ds

Set	Items	Description
S1	542	(DETOXIF? OR DEGRAD?) (50N) ORGANOPHOSPHOR? (100N) (ENZYM? OR - CATALY?)
S2	300	RD (unique items)
S3	0	S1 AND S S2 AND ESTERASE?
S4	8	S2 AND OPD

?t2/3/1-300

2/3/1 (Item 1 from file: 156)  
02831496 Subfile: TOXBIB-93-345090  
Stereoselectivity of soman detoxication by organophosphorus acid anhydases from Escherichia coli.  
Hoskin FC; Gallo BJ; Steeves DM; Walker JE  
Biology Department, Illinois Institute of Technology, Chicago 60616.  
Source: Chem Biol Interact; VOL 87, ISS 1-3, 1993, P269-78 ISSN: 0009-2797 Coden: CYV  
Language: ENGLISH  
Document Type: JOURNAL ARTICLE

2/3/2 (Item 2 from file: 156)  
02827658 Subfile: BIOSIS-93-25391  
Purification and preliminary characterization of permethrinase from a pyrethroid-transforming strain of Bacillus cereus.  
MALONEY SE; MAULE A; SMITH A RW  
Div. Biotechnol., Public Health Lab. Service, Centre Applied Microbiol. Res., Porton Down, Salisbury, Wiltshire SP4 OJG.  
Source: APPL ENVIRON MICROBIOL; 59 (7). 1993. 2007-2013. Coden: AEMID  
Language: ENGLISH  
BIOSIS COPYRIGHT: BIOL ABS.

2/3/3 (Item 3 from file: 156)  
02802683 Subfile: FEDRIP-93-02702605  
EFFECT OF AGRICULTURAL CHEMICALS AND NATURAL TOXINS CONTAMINATING THE FOOD OF DOMESTIC ANIMALS  
GILL SS; FUKUTO TR  
UNIVERSITY OF CALIFORNIA/ENTOMOLOGY, RIVERSIDE, CALIFORNIA 92521  
Source: FEDRIP DATABASE, NATIONAL TECHNICAL INFORMATION SERVICE (NTIS)  
Language: UNSPECIFIED  
Spon. Agency: U. S. DEPARTMENT OF AGRICULTURE/COOPERATIVE STATE RES SER  
Contract Number: AGRIC CA-R\*-ENT-3744-AH

2/3/4 (Item 4 from file: 156)  
02802611 Subfile: FEDRIP-93-02702377  
ENZYMATIC DECONTAMINATION OF ORGANOPHOSPHORUS CHEMICAL AGENTS  
WILD JR  
TEXAS A&M UNIV/BIOCHEMISTRY & BIOPHYSICS, COLLEGE STATION, TEXAS 77843  
Source: FEDRIP DATABASE, NATIONAL TECHNICAL INFORMATION SERVICE (NTIS)  
Language: UNSPECIFIED  
Spon. Agency: U. S. DEPARTMENT OF AGRICULTURE/COOPERATIVE STATE RES SER  
Contract Number: AGRIC TEX06837

2/3/5 (Item 5 from file: 156)  
02800926 Subfile: NTIS-AD-A259 889-4  
Solid-State (31)P Magic Angle Spinning (MAS) NMR Study of the Partitioning and Reaction of Organophosphorus Esters Adsorbed on Synthetic Resin Catalysts.  
Beaudry WT; Wagner GW; Ward JR  
Chemical Research, Development and Engineering Center, Aberdeen Proving

Ground, MD.

Source: Govt Reports Announcements & Index (GRA&I), Issue 10, 1993

Language: UNSPECIFIED

Contract Number: Proj. 10161102A71A

Order Info.: NTIS/AD-A259 889/4, 22p NTIS Prices: PC A03/MF A01

2/3/6 (Item 6 from file: 156)

02777383 Subfile: NTIS-AD-A257 540-5

Cholinesterase Assay for Monitoring the Kinetics of the JD6.5  
Organophosphorus Acid Anhydrase in Detoxification of  
Diisopropylfluorophosphate.

Yeh HR; Cheng TC; DeFrank JJ

Chemical Research, Development and Engineering Center, Aberdeen Proving  
Ground, MD.

Source: Govt Reports Announcements & Index (GRA&I), Issue 06, 1993

Language: UNSPECIFIED

Contract Number: Proj. 1C162622A553

Order Info.: NTIS/AD-A257 540/5, 17p NTIS Prices: PC A03/MF A01

2/3/7 (Item 7 from file: 156)

02752559 Subfile: NTIS-AD-A252 939-4

Evaluation of Kinetic Data to Discern Stereospecific Reactions of Toxic  
Organophosphorus Fluorides.

Ward JR; Albizo JM

Chemical Research, Development and Engineering Center, Aberdeen Proving  
Ground, MD.

Source: Govt Reports Announcements & Index (GRA&I), Issue 21, 1992

Language: UNSPECIFIED

Contract Number: Proj. 1C161102A71A

Order Info.: NTIS/AD-A252 939/4, 14p NTIS Prices: PC A03/MF A01

2/3/8 (Item 8 from file: 156)

02700347 Subfile: TOXBIB-92-157770

Immune surveillance, organophosphorus exposure, and lymphomagenesis.

Newcombe DS

Department of Environmental Health Sciences, Johns Hopkins University  
School of Hygiene and Public Health, Baltimore, Maryland 21205.

Source: Lancet; VOL 339, ISS 8792, 1992, P539-41 ISSN: 0023-7507

Coden: LOS

Language: ENGLISH

Document Type: JOURNAL ARTICLE

2/3/9 (Item 9 from file: 156)

02658361 Subfile: TOXBIB-91-190080

Purification and characterization of carboxylesterases from rat lung.

Gaustad R; Sletten K; Lovhaug D; Fonnum F

Norwegian Defence Research Establishment, Division for Environmental  
Toxicology, Kjeller.

Source: Biochem J; VOL 274 ( Pt 3), 1991, P693-7 ISSN: 0264-6021

Coden: 9YO

Language: ENGLISH

Document Type: JOURNAL ARTICLE

2/3/10 (Item 10 from file: 156)

02650181 Subfile: TOXBIB-91-099240

Mechanism of action of organophosphorus and carbamate insecticides.

Fukuto TR

Department of Entomology, University of California, Riverside 92521.

Source: Environ Health Perspect; VOL 87, 1990, P245-54 (REF: 28) ISSN:

0091-6765 Coden: EIO

Language: ENGLISH

Document Type: JOURNAL ARTICLE; REVIEW; REVIEW, TUTORIAL

2/3/11 (Item 11 from file: 156)

02645928 Subfile: TOXBIB-91-054556

Hepatic subcellular localization of cresylbenzodioxaphosphorin oxide (CBDP)-sensitive soman binding sites.

Little JS; Maxwell DM; Fox-Talbot MK; Brecht K; Lenz DE

US Army Environmental Hygiene Agency, Aberdeen Proving Ground, MD 21010-5425.

Source: Biochem Pharmacol; VOL 40, ISS 8, 1990, P1733-7 ISSN: 0006-2952  
Codon: 9Z4

Language: ENGLISH

Document Type: JOURNAL ARTICLE

2/3/12 (Item 12 from file: 156)

02572444 Subfile: BIOSIS-92-27802

Extractive derivatization of aqueous drugs using polymeric phase transfer catalysts: I. Sensitive analyses of dialkylphosphates as pentafluorobenzyl derivatives.

MIKI A; TSUCHIHASHI H; UEDA K; YAMASHITA M

Forensic Sci. Lab., Osaka Prefectural Police Headquarters, 3-1-16, Otemae, Chuo-ku, Osaka 540, Japan.

Source: JPN J TOXICOL ENVIRON HEALTH; 38 (2). 1992. 168-175. Codon: JJTHE

Language: JAPANESE

BIOSIS COPYRIGHT: BIOL ABS.

2/3/13 (Item 13 from file: 156)

02555054 Subfile: BIOSIS-92-10410

DETOXIFICATION OF ORGANOPHOSPHORUS PESTICIDES SOLUTIONS IMMOBILIZED ENZYME SYSTEM

HAVENS PL; RASE HF

Source: TEDDER, D. W. AND F. G. POHLAND (ED.). ACS (AMERICAN CHEMICAL SOCIETY) SYMPOSIUM SERIES, 468. EMERGING TECHNOLOGIES IN HAZARDOUS WASTE MANAGEMENT II; SYMPOSIUM, ATLANTIC CITY, NEW JERSEY, USA, JUNE 4-7, 1990. X+444P. AMERICAN CHEMICAL SOCIETY: WASHINGTON, D.C., USA. ILLUS. ISBN 0-8412-2102-2.; 0 (0). 1991. 261-281. Codon: ACSMC

Language: ENGLISH

BIOSIS COPYRIGHT: BIOL ABS. RRM

2/3/14 (Item 14 from file: 156)

02553827 Subfile: BIOSIS-92-09183

Distribution and nature of the aquatic organophosphorus acid anhydrides: Enzymes for organophosphate detoxification.

LANDIS WG

Inst. Environmental Toxicol. Chem., Huxley Coll. Environmental Studies, Western Washington Univ., Bellingham, Wash. 98225.

Source: REV AQUAT SCI; 5 (3-4). 1991. 267-286. Codon: RAQSE

Language: ENGLISH

BIOSIS COPYRIGHT: BIOL ABS.

2/3/15 (Item 15 from file: 156)

02548642 Subfile: BIOSIS-92-03996

In vitro degradation of some organophosphorus insecticides by susceptible and resistant diamondback moth.

KAO C-H; SUN C-N

Dep. Entomology, National Chung-Hsing Univ., Taichung, Taiwan 40227.

Source: PESTIC BIOCHEM PHYSIOL; 41 (2). 1991. 132-141. Codon: PCBPB

Language: ENGLISH

BIOSIS COPYRIGHT: BIOL ABS.

2/3/16 (Item 16 from file: 156)  
02548535 Subfile: BIOSIS-92-03889  
Organophosphates biodegradation in anaerobic media by immobilised enzymatic activity.  
HADDANE M; RAMBAUD A; COLETTI-PREVIERO M-A  
Dep. Sci. Environnement Sante Publique, Fac. Pharmacie, Montpellier, Fr.  
Source: ENVIRON TECHNOL; 12 (10). 1991. 887-896. Coden: ENVTE  
Language: ENGLISH  
BIOSIS COPYRIGHT: BIOL ABS.

2/3/17 (Item 17 from file: 156)  
02539331 Subfile: BIOSIS-91-32109  
Detoxification spectrum of the cigarette beetle symbiont Symbiotaphrina kochii in culture.  
SHEN SK; DOWD PF  
Zoonotic Dis. Lab., U.S.D.A., A.R.S., BARC-East, Beltsville, Md. 20705, USA.  
Source: ENTOMOL EXP APPL; 60 (1). 1991. 51-60. Coden: ETEAA  
Language: ENGLISH  
BIOSIS COPYRIGHT: BIOL ABS.

2/3/18 (Item 18 from file: 156)  
02532097 Subfile: BIOSIS-91-24870  
High paraoxon-hydrolyzing activity in organophosphorus insecticide-resistant mosquitoes.  
WATANABE M; TAKEBE S; KOBASHI K  
Fac. Pharm. Sci., Toyama Med. Pharm. Univ., 2630 Sugitani, Toyama-shi 930-01, Jpn.  
Source: CHEM PHARM BULL (TOKYO); 39 (4). 1991. 980-985. Coden: CPBTA  
Language: ENGLISH  
BIOSIS COPYRIGHT: BIOL ABS.

2/3/19 (Item 19 from file: 156)  
02516498 Subfile: BIOSIS-91-09116  
A possible novel link between organophosphorus and DDT insecticide resistance genes in Anopheles: Supporting evidence from fenitrothion metabolism studies.  
HEMINGWAY J; MIYAMOTO J; HERATH PR  
Dep. Medical Parasitology, London School Hygiene Tropical Medicine, Keppel Street, London WC1E 7HT.  
Source: PESTIC BIOCHEM PHYSIOL; 39 (1). 1991. 49-56. Coden: PCBPB  
Language: ENGLISH  
BIOSIS COPYRIGHT: BIOL ABS.

2/3/20 (Item 20 from file: 156)  
02512578 Subfile: BIOSIS-91-05195  
HEN LIVER AND PLASMA CAN METABOLIZE HEXYL-DCP PHOSPHORAMIDATE AT A RATE COMPARABLE TO THAT OF RAT  
DIAZ-ALEJO N; PELLIN MC; VICEDO JL; VILANOVA E  
Source: SECOND MEETING OF THE INTERNATIONAL NEUROTOXICOLOGY ASSOCIATION, SITGES, SPAIN, MAY 22-26, 1989. NEUROTOXICOL TERATOL; 12 (6). 1990. 615-618. Coden: NETEE  
Language: ENGLISH  
BIOSIS COPYRIGHT: BIOL ABS. RRM

2/3/21 (Item 21 from file: 156)  
02507949 Subfile: BIOSIS-91-00564  
Photocatalytic degradation of organophosphorous insecticides in aqueous

semiconductor suspensions.

HARADA K; HISANAGA T; TANAKA K

Natl. Chem. Lab. Industry, Higashi 1-1, Tsukuba, Jpn.

Source: WATER RES; 24 (11). 1990. 1415-1418. Coden: WATRA

Language: ENGLISH

BIOSIS COPYRIGHT: BIOL ABS.

2/3/22 (Item 22 from file: 156)

02501578 Subfile: BIOSIS-90-28251

Decomposition of organophosphorus compounds on photoactivated titanium dioxide surfaces.

GRATZEL CK; JIROUSEK M; GRATZEL M

Inst. Chim. Physique, Ecole Polytechnique Fed. Lausanne, CH-1015 Lausanne, Switzerland.

Source: J MOL CATAL; 60 (3). 1990. 375-388. Coden: JMCAD

Language: ENGLISH

BIOSIS COPYRIGHT: BIOL ABS.

2/3/23 (Item 23 from file: 156)

02485098 Subfile: BIOSIS-90-11768

Inactivation of organophosphorus nerve agents by the phosphotriesterase from *Pseudomonas diminuta*.

DUMAS DP; DURST HD; LANDIS WG; RAUSHEL FM; WILD JR

Dep. Biochem., Texas A and M Univ., College Station, Texas 77843.

Source: ARCH BIOCHEM BIOPHYS; 277 (1). ~~1990~~ 155-159. Coden: ABBIA

Language: ENGLISH

BIOSIS COPYRIGHT: BIOL ABS.

2/3/24 (Item 24 from file: 156)

02466413 Subfile: BIOSIS-89-29207

IN-VITRO DEGRADATION OF THE STEREOISOMERS OF SOMAN IN GUINEA-PIG MOUSE AND HUMAN SKIN

VAN DONGEN CJ; DE LANGE J; VAN GENDEREN J

Source: BIOCHEM PHARMACOL; 38 (14). 1989. 2263-2268. Coden: BCPA

Language: ENGLISH

BIOSIS COPYRIGHT: BIOL ABS. RRM

2/3/25 (Item 25 from file: 156)

02464696 Subfile: BIOSIS-89-27490

CHARACTERIZATION OF A DFP HYDROLYZING ENZYME FROM AN OBLIGATE HALOPHILE DEFRANK JJ; CHEUNG TC

Source: 89TH ANNUAL MEETING OF THE AMERICAN SOCIETY FOR MICROBIOLOGY, NEW ORLEANS, LOUISIANA, USA, MAY 14-18, 1989. ABSTR ANNU MEET AM SOC MICROBIOL; 89 (0). 1989. 276. Coden: ASMAC

Language: ENGLISH

BIOSIS COPYRIGHT: BIOL ABS. RRM

2/3/26 (Item 26 from file: 156)

02340997 Subfile: BIOSIS-86-12425

DETOXIFICATION OF THE ORGANOPHOSPHORUS INSECTICIDE CHLORFENVINPHOS BY RAT RABBIT AND HUMAN LIVER ENZYMES

HUTSON DH; LOGAN CJ

Source: XENOBIOTICA; 16 (1). 1986. 87-93. Coden: XENOB

Language: ENGLISH

BIOSIS COPYRIGHT: BIOL ABS. RRM

2/3/27 (Item 27 from file: 156)

02307268 Subfile: NTIS-AD-A250 676-4

Polymeric Amine-Copper (II) Complex as Catalyst for the Hydrolysis of 1,2,2-Trimethylpropyl Methylphosphonofluoridate (Soman) and Bis(1-methyleth

yl)phosphorofluoridate (DFP).

Hammond PS; Forster JS

Army Medical Research Inst. of Chemical Defense, Aberdeen Proving Ground, MD.

Source: Govt Reports Announcements & Index (GRA&I), Issue 18, 1992

Language: UNSPECIFIED

Contract Number: Proj. 3M162787A875, Task BA

Order Info.: NTIS/AD-A250 676/4, Availability: Pub. in Jnl. of Applied Polymer Science, v43 p1925-1931, 1991. Available to DTIC users only. No copies furnished by NTIS., 8p NTIS Prices: Not available NTIS

2/3/28 (Item 28 from file: 156)

02289123 Subfile: NTIS-AD-A233 635-2

Screening of Organophosphorus Acid Anhydases from Different Sources by Western Blot Analysis.

Cheng TC; Miller M; DeFrank J

Chemical Research, Development and Engineering Center, Aberdeen Proving Ground, MD.

Source: Govt Reports Announcements & Index (GRA&I), Issue 16, 1991

Language: UNSPECIFIED

Contract Number: Proj. 1L162622A553

Order Info.: NTIS/AD-A233 635/2, 19p NTIS Prices: PC A03/MF A01

2/3/29 (Item 29 from file: 156)

02288114 Subfile: NTIS-AD-A230 945-8

Hepatic Subcellular Localization of Cresylbenzodioxaphosphorin Oxide (CBDP)-Sensitive Soman Binding Sites.

Little JS; Maxwell DM; Fox-Talbot MK; Brecht K; Lenz DE

Army Medical Research Inst. of Chemical Defense, Aberdeen Proving Ground, MD.

Source: Govt Reports Announcements & Index (GRA&I), Issue 13, 1991

Language: UNSPECIFIED

Contract Number: Proj. 3M162787A875, Task AA

Order Info.: NTIS/AD-A230 945/8, 6p NTIS Prices: PC A02/MF A01

2/3/30 (Item 30 from file: 156)

02285734 Subfile: FEDRIP-91-01301746

GENETIC ROLE IN TOXICITIES OF ANTIESTERASE PESTICIDES

EHRICH M; JORTNER BS; GROSS WB

VA-MD REGIONAL COLL OF VET MED/VETERINARY MEDICAL EXP STATION, BLACKSBURG, VIRGINIA 24061

Source: FEDRIP DATABASE, NATIONAL TECHNICAL INFORMATION SERVICE (NTIS)

Language: UNSPECIFIED

Spon. Agency: U. S. DEPARTMENT OF AGRICULTURE/COOPERATIVE STATE RES SER

Contract Number: AGRIC VA-135243

2/3/31 (Item 31 from file: 156)

02261860 Subfile: NTIS-AD-A213 677-8

Biochemical Characterization and Protein Crystallography of OPA Anhydrase.

Ward KB; Deschamps JR; Zuk WM

Naval Research Lab., Washington, DC.

Source: Govt Reports Announcements & Index (GRA&I), Issue 04, 1990

Language: UNSPECIFIED

Order Info.: NTIS/AD-A213 677/8, 8p NTIS Prices: PC A02/MF A01

2/3/32 (Item 32 from file: 156)

02257019 Subfile: NTIS-AD-A209 713-7

Studies on the Purification of Squid-Type DFPase Suitable for Genetic Engineering Application.

Rajan KS; Mainer S  
IIT Research Inst., Chicago, IL.  
Source: Govt Reports Announcements & Index (GRA&I), Issue 21, 1989  
Language: UNSPECIFIED  
Contract Number: Contract N00014-87-K-0450  
Order Info.: NTIS/AD-A209 713/7, 5p NTIS Prices: PC A02/MF A01

2/3/33 (Item 33 from file: 156)  
02243664 Subfile: NTIS-AD-A203 993-1  
Surface Chemistry of Organophosphorus Compounds,  
Ekerdt JG; Klabunde KJ; Shapley JR; White JM; Yates JT  
Pittsburgh Univ., PA. Surface Science Center.  
Source: Govt Reports Announcements & Index (GRA&I), Issue 11, 1989  
Language: UNSPECIFIED  
Spon. Agency: Army Research Office, Research Triangle Park, NC.  
Contract Number: Contract DAAL03-86-K-0005  
Order Info.: NTIS/AD-A203 993/1, 8p NTIS Prices: PC A02/MF A01

2/3/34 (Item 34 from file: 156)  
02242749 Subfile: NTIS-AD-A203 001-3  
Soman Hydrolyzing and Detoxifying Properties of an Enzyme from a  
Thermophilic Bacterium,  
Chettur G; DeFrank JJ; Gallo BJ; Hoskin FC; Mainer S  
Illinois Inst. of Tech., Chicago.  
Source: Govt Reports Announcements & Index (GRA&I), Issue 10, 1989  
Language: UNSPECIFIED  
Spon. Agency: Army Research Office, Research Triangle Park, NC.  
Contract Number: Contract DAAG29-86-K-0069  
Order Info.: NTIS/AD-A203 001/3, 9p NTIS Prices: PC A02/MF A01

2/3/35 (Item 35 from file: 156)  
02200730 Subfile: HMTC-86-0003384  
ENZYMATIC AND MICROBIAL DEGRADATION OF TOXIC MATERIALS  
White WE  
Source: Pollution Engineering 18(3):28-30; 1986.  
Language: ENGLISH

2/3/36 (Item 36 from file: 156)  
02156570 Subfile: TOXBIB-90-226061  
Biochemical approach to occupational neurotoxicology.  
Lotti M; Moretto A; Caroli S  
Source: Arh Hig Rada Toksikol; VOL 40, ISS 2, 1989, P231-9 ISSN:  
0004-1254 Coden: 8MK  
Language: ENGLISH  
Document Type: JOURNAL ARTICLE

2/3/37 (Item 37 from file: 156)  
02149944 Subfile: TOXBIB-90-054266  
Spectrophotometric assays for the enzymatic hydrolysis of the active  
metabolites of chlorpyrifos and parathion by plasma  
paraoxonase/arylesterase.  
Furlong CE; Richter RJ; Seidel SL; Costa LG; Motulsky AG  
Department of Medicine (Division of Medical Genetics), University of  
Washington, Seattle 98195.  
Source: Anal Biochem; VOL 180, ISS 2, 1989, P242-7 ISSN: 0003-2697  
Coden: 4NK  
Language: ENGLISH  
Document Type: JOURNAL ARTICLE

2/3/38 (Item 38 from file: 156)

02007617 Subfile: TOXBIB-85-196937

Enzymatic hydrolysis of atracurium in vivo.

Nigrovic V; Auen M; Wajskol A

Source: Anesthesiology; VOL 62, ISS 5, 1985, P606-9 ISSN: 0003-3022

Coden: 4SG

Language: ENGLISH

Document Type: JOURNAL ARTICLE

2/3/39 (Item 39 from file: 156)

02005896 Subfile: TOXBIB-86-137195

Carboxylesterases, importance for detoxification of organophosphorus anticholinesterases and trichothecenes.

Fonnum F; Sterri SH; Aas P; Johnsen H

Source: Fundam Appl Toxicol; VOL 5, ISS 6 Pt 2, 1985, PS29-38 ISSN:

0272-0590 Coden: FAB

Language: ENGLISH

Document Type: JOURNAL ARTICLE

2/3/40 (Item 40 from file: 156)

01985199 Subfile: HMTC-85-0002560

A FRUIT FLY BIOASSAY WITH PHOSPHOTRIESTERASE FOR DETECTION OF CERTAIN ORGANOPHOSPHORUS INSECTICIDE RESIDUES

Chaing T; Dean MC; McDaniel CS

Source: Bulletin of Environmental Contamination and Toxicology 34(6):809-814; 1985.

Language: ENGLISH

2/3/41 (Item 41 from file: 156)

01919209 Subfile: HEEP-84-04768

Effect of pretreatment with sodium phenobarbital on the toxicity of soman in mice.

CLEMENT JG

Biomedical Sect., Defence Research Establishment Suffield, Ralston, Alberta, Canada T0J 2N0.

Source: BIOCHEM PHARMACOL; 32 (8). 1983. 1411-1416. Coden: BCPA

Language: ENGLISH

HEEP COPYRIGHT: BIOL ABS.

2/3/42 (Item 42 from file: 156)

01858270 Subfile: NTIS-DE83704321

Persistence of Organophosphorus Pesticides in Aquatic Environments. Coordinated Programme on Isotope-Tracer-Aided Research and Monitoring on Agricultural Residue - Biological Interactions in Aquatic Environment. Final Report for the Period 1 July 1976 - 31 July 1982.

Horvath L

International Atomic Energy Agency, Vienna (Austria).

Source: Govt Reports Announcements & Index (GRA&I), Issue 13, 1984

Language: UNSPECIFIED

Contract Number: IAEA-R-1793-F

Order Info.: NTIS/DE83704321, U.S. Sales Only., 8p NTIS Prices: PC A02/MF A01

2/3/43 (Item 43 from file: 156)

01854859 Subfile: NTIS-AD-A110 841-4

A Physiological and Biochemical Basis for the Action of Soman and Related Agents at the Acetylcholine Receptor

Hoskin FCG

Illinois Inst. of Tech., Chicago. Dept. of Biology.

Source: Govt Reports Announcements & Index (GRA&I), Issue 12, 1982

Language: UNSPECIFIED



Spon. Agency: Army Research Office, Research Triangle Park, NC.  
Contract Number: Grant DAAG29-78-G-0090  
Order Info.: NTIS/AD-A110 841/4, 23p NTIS Prices: PC A02/MF A01

2/3/44 (Item 44 from file: 156)  
01753012 Subfile: TOXBIB-84-098494  
Effect of repeated oral administration of quinalphos on blood esterases in Bubalus bubalis.  
Srivastava AK; Paul BS; Malik JK  
Source: Toxicol Lett; VOL 19, ISS 1-2, 1983, P165-9 ISSN: 0378-4274  
Codon: VNX  
Language: ENGLISH  
Document Type: JOURNAL ARTICLE

2/3/45 (Item 45 from file: 156)  
01668168 Subfile: HEEP-81-00210  
The effect of hepatic microsomal monooxygenase induction on the metabolism and toxicity of the organophosphorus insecticide chlordfenvinphos.  
HUTSON DH; WRIGHT AS  
Shell Toxicol. Lab., Shell Res. Ltd., Sittingbourne, Kent ME9 8AG, Engl., UK.  
Source: CHEM-BIOL INTERACT; 31 (1). 1980. 93-102. Codon: CBINA  
Language: UNSPECIFIED  
HEEP COPYRIGHT: BIOL ABS.

2/3/46 (Item 46 from file: 156)  
01655542 Subfile: PESTAB-81-0803  
Intoxication par les organophosphores. A propos d'une observation chez un enfant de 2 ans. [Intoxication by organophosphorus insecticides. A case history of a 2 year old infant.]  
Abbadie D; Colle M; Battin J  
Clin. Mal. Enfants, Hop. Enfants, F-33077 Bordeaux, France  
Source: Pediatrie 35(6): 545-552 1980 (10 References) Codon: PEDRA  
Language: FRENCH

2/3/47 (Item 47 from file: 156)  
01655442 Subfile: PESTAB-81-0674  
Pesticide breakdown by soil enzymes.  
Burns RG; Edwards JA  
Biol. Lab., Univ. Kent, Canterbury, Kent CT2 7NJ, England  
Source: ~~Pestic. Sci.~~ 11(5): 506-512 1980 (43 References) Codon: PSSCB  
Language: UNSPECIFIED

2/3/48 (Item 48 from file: 156)  
01655186 Subfile: PESTAB-81-0388  
Hydrolyse chimique et activite pesticide. [Chemical hydrolysis and pesticidal activity.]  
Bastide J; Coste CM; Meallier P  
Groupe Etud. & Rech. Appl. Pluridisciplinaires, Univ. Perpignan, F-66025 Perpignan, France  
Source: Bull. Soc. Chim. Fr. II(7-8): 405-415 1980 (90 References)  
Codon: BSCFA  
Language: FRENCH

2/3/49 (Item 49 from file: 156)  
01654541 Subfile: PESTAB-80-3226  
Metabolism of several insecticides by glutathion S-transferase.  
Fukami JI  
Lab. Insect Toxicol., Inst. Phys. Chem. Res., Wako, Saitama, Japan

Source: Pharmacol. Ther. Part A 10(3): 473-514 1980 (110 References)  
Codon: PTPAD  
Language: UNSPECIFIED

2/3/50 (Item 50 from file: 156)  
01599596 Subfile: HEEP-80-02392  
Studies on mode of action and selectivity mechanism of herbicides.  
MATSUNAKA S  
Dep. Plant Prot., Fac. Agric., Kobe Univ., Rokkodaicho, Nada, Kobe 657,  
Jpn.  
Source: J PESTIC SCI (NIHON NOYAKUGAKU KAISHI); 3 (2). 1978. 195-202.  
Codon: NNGAD  
Language: UNSPECIFIED  
HEEP COPYRIGHT: BIOL ABS.

2/3/51 (Item 51 from file: 156)  
01549786 Subfile: PESTAB-80-0557  
Isolation of an enzyme from soil that degrades the organophosphorus  
insecticide, crotoxyphos.  
Getzin LW; Satyanarayana T  
Western Washington Res. & Ext. Cent., Washington State Univ., Puyallup,  
WA 98371  
Source: Arch. Environ. Contam. Toxicol. 8(6): 661-672 1979 (13  
References) Codon: AECTC  
Language: UNSPECIFIED

2/3/52 (Item 52 from file: 156)  
01549550 Subfile: PESTAB-80-0118  
The bacterial degradation of p-nitrophenol.  
Spain JC  
Univ. Texas, Austin, TX  
Source: Diss. Abstr. Int. B 40(3): 1168 1979 Codon: DABBB  
Language: UNSPECIFIED

2/3/53 (Item 53 from file: 156)  
01548830 Subfile: PESTAB-79-2591  
Chemical conversion of pesticides in the soil medium: the  
organophosphates.  
Yaron B  
Dep. Agric. Sci., Univ. Oxford, Oxford, England  
Source: IN: Advances in Pesticide Science. Geissbuehler, H., ed.  
(Pergamon Press: Oxford, England) (3): 577-585 1979 (40 References)  
Codon: BOOKA  
Language: UNSPECIFIED

2/3/54 (Item 54 from file: 156)  
01547819 Subfile: PESTAB-79-0918  
Comparative in vitro metabolism of tetrachlorvinphos by the soluble  
fraction (105000 g) from sheep, pig, and cow liver homogenates.  
Akhtar MH; Foster TS  
Anim. Res. Inst., Agric. Canada, Ottawa, Ont. K1A 0C6, Canada  
Source: J. Agric. Food Chem. 27(1): 113-116 1979 (8 References) Codon:  
JAFCA  
Language: UNSPECIFIED

2/3/55 (Item 55 from file: 156)  
01546418 Subfile: PESTAB-80-2191  
Microbial degradation of insecticides.  
Matsumura F; Benezet HJ  
Dep. Entomol., Univ. Wisconsin, Madison, WI

Source: In: Pesticide Microbiology. Hill, I. R. and Wright, S. J. L., eds. (Academic Press: London) (CH10): 623-667 1978 (134 References)

Coden: XXXXX

Language: UNSPECIFIED

2/3/56 (Item 56 from file: 156)

01543862 Subfile: PESTAB-78-1145

Metabolism of organophosphate pesticides.

Rozengart VI

I. M. Sechenov Inst. Evol. Physiol. Biochem., USSR Acad. Sci., Yalta, USSR

Source: Khim. Sel'sk Khoz. (1): 54-64 1978 (39 References) Coden: KSKZA

Language: RUSSIAN

2/3/57 (Item 57 from file: 156)

01542440 Subfile: PESTAB-78-1306

A possible model for the surface-induced hydrolysis of organophosphorus pesticides on kaolinite clays.

Mingelgrin U; Saltzman S; Yaron B

Inst. Soil & Water, ARO, Volcani Cent., Bet Dagan, Israel

Source: Soil Sci. Soc. Am. J. 41(3): 519-523 1977 (28 References)

Coden: xxxxx

Language: UNSPECIFIED

2/3/58 (Item 58 from file: 156)

01359480 Subfile: HEEP-75-12372

Inhibition of phenylamide hydrolysis by Bacillus sphaericus with methylcarbamate and organophosphorus insecticides.

ENGELHARDT G; WALLNOEFER PR

Source: APPL MICROBIOL; 29 (6). 1975 717-721 Coden: APMBA

Language: UNSPECIFIED

HEEP COPYRIGHT: BIOL ABS.

2/3/59 (Item 59 from file: 156)

01334570 Subfile: HEEP-74-03509

Cholinesterase activity determination as an index of occupational exposure to organo-phosphorus insecticides, inhibitors of this enzyme.

SVETLICIC B; GAETA R; MELLO D; PUGA FR

Source: ARQ INST BIOL SAO PAULO; 38 (4). 1971 (RECD 1972) 221-225

Coden: AIBOA

Language: UNSPECIFIED

HEEP COPYRIGHT: BIOL ABS.

2/3/60 (Item 60 from file: 156)

01300070 Subfile: PESTAB-78-2254

Organophosphorus insecticides.

Spencer EY

Res. Inst., Agric. Canada, London, Ont., Canada

Source: Adv. Environ. Sci. technol. 6: 295-312 1976 (33 References)

Coden: AESTC

Language: UNSPECIFIED

2/3/61 (Item 61 from file: 156)

01298029 Subfile: PESTAB-76-1897

Effect of phosphatases on the persistence of organophosphorus insecticides in soil and water.

Heuer B; Birk Y; Yaron B

Source: J. Agric. Food Chem. 24(3): 611-613; 1976. (17 references)

Coden: JAFCA

Language: UNSPECIFIED

2/3/62 (Item 62 from file: 156)  
01296223 Subfile: PESTAB-76-1975  
Importance of organochlorine insecticide interactions with drugs and other compounds in relation to the effect of pesticides on the environment.  
Krampl V  
Source: Cesk. Hyg. 20(3): 3 151-157; 1975.(54 references) Coden: CEHYA  
Language: CZECH

2/3/63 (Item 63 from file: 156)  
01295098 Subfile: PESTAB-75-2677  
The carboxylesterases/amidases of mammalian liver and their possible significance.  
Junge W; Krisch K  
Source: Crit. Rev. Toxicol. 3(4): 371-434; 1975.(306 references) Coden: CRTXB  
Language: UNSPECIFIED

2/3/64 (Item 64 from file: 156)  
01294427 Subfile: PESTAB-75-1447  
Chemical and biochemical methodology for the assessment of hazards of pesticides for man.  
WHO Scientific Group on Chemical and Biochemical Methodology for the Assessment of Pesticide Hazards  
Source: WHO Tech. Rep. Ser. 560: 1-27; 1975(REF:48) Coden: WHOTA  
Language: UNSPECIFIED

2/3/65 (Item 65 from file: 156)  
01294001 Subfile: PESTAB-76-2354  
Determination of chlorophos in honey by an enzymic agar-diffusion method.  
Yaroshenko VI  
Source: Visn. Sil'skogospod. Nauki 1: 108-111; 1974.(9 references)  
Coden: VSNA  
Language: Ukrainian

2/3/66 (Item 66 from file: 156)  
01293479 Subfile: PESTAB-75-2665  
Consequences of insecticide metabolism on the paths of cellular bioenergetics.  
Lowy R; Derache R  
Source: Ann. Nutr. Aliment. 28(4): 365-374; 1974.(9 references) Coden: ANAIA  
Language: FRENCH

2/3/67 (Item 67 from file: 156)  
01293467 Subfile: PESTAB-75-2628  
Organophosphorus pesticides.  
Botta A  
Source: Arch. Mal. Prof. Med. Trav. Secur. Soc. 35(10-11): 929-932; 1974.  
Coden: AMPMA  
Language: FRENCH

2/3/68 (Item 68 from file: 156)  
01293113 Subfile: PESTAB-75-1435  
Insecticide resistance in insects and its ecological and economic thrust.  
IN:  
Perry AS  
Source: Survival in toxic environments, M. A. Q. Khan and J. P. Bederka, Jr., eds., Academic Press, New York, 1974, p. 399-445(REF:235) Coden: xxxxx  
Language: UNSPECIFIED

2/3/69 (Item 69 from file: 156)  
01292019 Subfile: PESTAB-74-2712  
The influence of age and sex on the toxicity and multiple pathways of metabolism of methyl parathion and parathion in rats.  
Benke GM; Murphy SD  
Source: Toxicol. Appl. Pharmacol.29(1): 125; 1974  
Language: UNSPECIFIED

2/3/70 (Item 70 from file: 156)  
01291728 Subfile: PESTAB-74-2177  
The role of nonoxidative metabolism in organophosphorus resistance.  
Motoyama N; Dauterman WC  
Source: J. Agr. Food Chem. 22(3): 350-356; 1974(REF:43)  
Language: UNSPECIFIED

2/3/71 (Item 71 from file: 156)  
01291130 Subfile: PESTAB-76-2298  
A liver arylamidase extremely sensitive to organophosphorus compounds.  
Sato T; DuBois KP  
Source: Proc. Symp. Drug Metab. Action 5: 163-173; 1973.(18 references)  
Language: UNSPECIFIED

2/3/72 (Item 72 from file: 156)  
01291083 Subfile: PESTAB-76-1513  
Modifications in the chemical structure of organophosphorus pesticides as related to various conditions of the physical, chemical, or biological environment.  
Giuran V  
Source: Igiena 22(8): 485-495; 1973.(21 references) Coden: IGIBA  
Language: Romanian

2/3/73 (Item 73 from file: 156)  
01290313 Subfile: PESTAB-74-1478  
Metabolic pathways of pesticides in external media and the problem of residues.  
Korotkova OA; Volkov AI  
Source: Zh. Vses. Khim. Obshchest.18(5): 552-562; 1973  
Language: UNSPECIFIED

2/3/74 (Item 74 from file: 156)  
01290187 Subfile: PESTAB-74-1162  
Environmental and toxicological aspects of the application of insecticides and herbicides.  
Prigge E  
Source: Deut. Tieraerztl. Wochenschr. 80(20): 485-488; 1973  
Language: GERMAN

2/3/75 (Item 75 from file: 156)  
01289862 Subfile: PESTAB-74-0386  
Studies of organophosphorus insecticide toxicity and possible mechanisms of tolerance in insecticide-susceptible and -resistant populations of mosquitofish (Gambusia affinis).  
Chambers JE  
Source: Diss. Abstr. Int.34(5): 2259B; 1973  
Language: UNSPECIFIED

2/3/76 (Item 76 from file: 156)  
01288778 Subfile: PESTAB-75-1418  
Detoxification of organophosphorus insecticide following enzymatic

induction caused by urea herbicides.

Bankowska J; Bojanowska A

Source: Roczn. Panstw. Zakl. Hig. 23(4): 487-493; 1972(REF:7) Coden: RPZHA

Language: POLISH

2/3/77 (Item 77 from file: 156)

01288547 Subfile: PESTAB-74-0766

Metabolic interactions between enzymes and insecticides during grain storage.

Meuser F

Source: Ann. Technol. Agr. 21(4): 515-533; 1972

Language: UNSPECIFIED

2/3/78 (Item 78 from file: 156)

01287898 Subfile: HAPAB-73-01201

Some actions of a new organophosphorus compound and one of its major metabolites at the neuromuscular junction.

Cholakakis JM; Hemsworth BA

Source: Toxicol. Appl. Pharmacol.; 22(2): 287; 1972

Language: UNSPECIFIED

2/3/79 (Item 79 from file: 156)

01286967 Subfile: HAPAB-72-01280

Mode of action organophosphorus insecticides.

Shishido T

Source: Shokubutsu Boeki (Plant Protect.); 26(3): 98-102; 1972 ; (REF:5)

Language: JAPANESE

2/3/80 (Item 80 from file: 156)

01193312 Subfile: TOXBIB-73-042824

[Detoxification of organophosphorous insecticides following enzyme induction due to urea herbicides]

Bankowska J; Bojanowska A

Source: Roczn. Panstw. Zakl. Hig.; VOL 23, ISS 4, 1972, P487-93 ISSN: 0035-7715 Coden: TXT

Language: POLISH

Document Type: JOURNAL ARTICLE

2/3/81 (Item 81 from file: 156)

01028958 Subfile: PESTAB-76-1612

Non-enzymatic reactions of organophosphorus compounds.

Ruveda MA

Source: Jornadas Argent. Toxicol. Anal. Actas 1: 148-156; 1971.(4 references) Coden: 26XQA

Language: SPANISH

2/3/82 (Item 82 from file: 156)

01028795 Subfile: HAPAB-73-01673

Current problems of the toxicology of organophosphorus insecticides.

Kagan YuS

Source: Ernahrungsforschung; 16(4): 503-514; 1971 ; (REF:33)

Language: GERMAN

2/3/83 (Item 83 from file: 156)

01027941 Subfile: HAPAB-72-00348

Glutathione-dependent degradation of 2,2-dichlorovinyl dimethyl phosphate (DDVP) by the rat.

Dicowsky L JR; Morello A JR

Source: Life Sci. Part II; 10(18): 1031-1037 1971; (REF:7)

Language: UNSPECIFIED

2/3/84 (Item 84 from file: 156)  
01027830 Subfile: HAPAB-72-00143  
The toxicity of organophosphorus compounds to mammals.  
DuBois KP JR  
Source: Bull. World Health Organ.; 44(1-3): 233-40 1971; (REF:11)  
Language: UNSPECIFIED

2/3/85 (Item 85 from file: 156)  
01022303 Subfile: HAPAB-70-01189  
Kinetics of hydrolysis of diazinon and diazoxon.  
Gomaa HM; Suffet IH; Faust SD  
Source: Residue Rev.; 29: 171-90, 1969; (REF:32)  
Language: UNSPECIFIED

2/3/86 (Item 86 from file: 156)  
01021632 Subfile: HAPAB-70-00257  
Mechanisms of pesticide interactions in vertebrates.  
Murphy SD  
Source: Residue Rev.; No. 25: 201-21, 1969; (REF:56)  
Language: UNSPECIFIED

2/3/87 (Item 87 from file: 156)  
01021629 Subfile: HAPAB-70-00253  
Radiotracer studies on metabolism, degradation and mode of action of insecticidal chemicals.  
Casida JE  
Source: Residue Rev.; No. 25: 149-59, 1969; (REF:50)  
Language: UNSPECIFIED

2/3/88 (Item 88 from file: 156)  
01021610 Subfile: HAPAB-70-00230  
Interactions.  
Zavon MR  
Source: BioScience; 19(10): 892-5, 1969; (REF:28)  
Language: UNSPECIFIED

2/3/89 (Item 89 from file: 156)  
01021367 Subfile: HAPAB-69-01660  
Metabolism of insecticides in plants and animals  
Fukuto RL TRMetcalf  
Source: Ann. N. Y. Acad. Sci.; 160(1), 97-111, 1969; (REF:80)  
Language: UNSPECIFIED

2/3/90 (Item 90 from file: 156)  
01020408 Subfile: HAPAB-69-01436  
An organophosphorus round-up: Part I.  
ANON  
Source: Food Cosmet. Toxicol.; 6(6), 794-7, 1968; (REF:17)  
Language: UNSPECIFIED

2/3/91 (Item 91 from file: 156)  
01019107 Subfile: HAPAB-67-00660  
Biochemical Mechanisms of Insect Resistance to Anticholinesterases  
Oppenoorth FJ  
Source: Biochem. J.; 102(1):2P-3P, 1967  
Language: UNSPECIFIED

2/3/92 (Item 92 from file: 156)  
01019028 Subfile: HAPAB-67-00521

METABOLISM AND MODE OF ACTION OF ORGANOPHOSPHORUS INSECTICIDES

Fukuto TR; Metcalf RL

Source: Paper to be presented at Am. Chem. Soc. Meeting, Miami Beach,  
April 10-4, 1967, 1967

Language: UNSPECIFIED

2/3/93 (Item 93 from file: 156)

01019008 Subfile: HAPAB-67-00490

THE METABOLISM OF CONTACT INSECTICIDES IN SOTRED GRAINS

Rowlands DG

Source: Residue Reviews; 17: 105-77, 1967

Language: UNSPECIFIED

2/3/94 (Item 94 from file: 156)

01018590 Subfile: HAPAB-67-00083

Nature of a Soluble, Glutathione-Dependent Enzyme System Active in  
Cleavage of Methyl Parathion to Desmethyl Parathion

Fukami Shishido T J

Source: J. Econ. Entomol; 59(6):1338-46, 1966

Language: UNSPECIFIED

2/3/95 (Item 1 from file: 5)

9561570 BIOSIS Number: 94066570

CHARACTERIZATION OF THE ZINC BINDING SITE OF BACTERIAL PHOSPHOTRIESTERASE

OMBURGO G A; KUO J M; MULLINS L S; RAUSHEL F M

CENT. MACROMOLECULAR DESIGN, TEXAS A AND M UNIV., COLLEGE STATION, TEXAS

77843-3255.

J BIOL CHEM 267 (19). 1992. 13278-13283. CODEN: JBCHA

Full Journal Title: Journal of Biological Chemistry

Language: ENGLISH

2/3/96 (Item 2 from file: 5)

6988466 BIOSIS Number: 87048987

ORGANOFLUOROPHOSPHATE-HYDROLYZING ACTIVITY IN AN ESTUARINE CLAM

RANGIA-CUNEATA

ANDERSON R S; DURST H D; LANDIS W G

CHESAPEAKE BIOL. LAB., UNIV. MARYLAND, SOLOMONS, MD. 20688.

COMP BIOCHEM PHYSIOL C COMP PHARMACOL TOXICOL 91 (2). 1988. 575-578.

CODEN: CBPCE

Full Journal Title: Comparative Biochemistry and Physiology C Comparative  
Pharmacology and Toxicology

Language: ENGLISH

2/3/97 (Item 3 from file: 5)

6526676 BIOSIS Number: 85127197

INSECTICIDAL RESISTANCE OF CULEX-TRITAENIORHYNCHUS DIPTERA CULICIDAE IN  
JAPAN GENETICS AND MECHANISMS OF RESISTANCE TO ORGANOPHOSPHORUS

INSECTICIDES

TAKAHASHI M; YASUTOMI K

DEP. MED. ENTOMOL., NATL. INST. HEALTH, SHINAGAWAKU, TOKYO, JPN.

J MED ENTOMOL 24 (6). 1987. 595-603. CODEN: JMENA

Full Journal Title: Journal of Medical Entomology

Language: ENGLISH

2/3/98 (Item 4 from file: 5)

5872464 BIOSIS Number: 84005029

TOXICOLOGICAL AND BIOCHEMICAL STUDIES ON COTTON LEAFWORM

SPODOPTERA-LITTORALIS BOISD

SAAD A F S A; EL-SEBAE A H; MOURAD A K; ZAGHLOUL O; OMAR M E

PLANT PROTECTION DEP., FAC. AGRICULTURE, HELWAN UNIV., ALEXANDRIA, EGYPT.



MEDED FAC LANDBOUWWET RIJKSUNIV GENT 51 (3 PART B). 1986 (RECD. 1987).  
1223-1238. CODEN: MFLRA  
Full Journal Title: Mededelingen van de Faculteit Landbouwwetenschappen  
Rijksuniversiteit Gent  
Language: ENGLISH

2/3/99 (Item 5 from file: 5)  
5840735 BIOSIS Number: 83103042  
EFFECTS OF INSECTICIDES ON ENZYME ACTIVITIES IN SOIL ENVIRONMENT  
HONG J-U; KIM J-E  
DEP. AGRIC. CHEMISTRY, COLLEGE AGRIC., KYUNGPOOK NATL. UNIV., TAEGU,  
KOREA.  
J KOREAN AGRIC CHEM SOC 29 (3). 1986. 294-303. CODEN: JKACA  
Full Journal Title: Journal of the Korean Agricultural Chemical Society  
Language: ENGLISH

2/3/100 (Item 6 from file: 5)  
5774415 BIOSIS Number: 83036722  
RAPID IN-VITRO SCREENING ASSAY FOR IMMUNOTOXIC EFFECTS OF  
ORGANOPHOSPHORUS AND CARBAMATE INSECTICIDES ON THE GENERATION OF CYTOTOXIC  
T LYMPHOCYTE RESPONSES  
RODGERS K E; LEUNG N; IMAMURA T; DEVENS B H  
LIVINGSTON REPRODUCTIVE BIOL. LAB., LAC/USC, 1321 N. MISSION RD. 110, LOS  
ANGELES, CALIF. 90033.  
PESTIC BIOCHEM PHYSIOL 26 (3). 1986. 292-301. CODEN: PCBPB  
Full Journal Title: Pesticide Biochemistry and Physiology  
Language: ENGLISH

2/3/101 (Item 7 from file: 5)  
5436534 BIOSIS Number: 82081337  
AMPLIFICATION OF AN ESTERASE GENE IS RESPONSIBLE FOR INSECTICIDE  
RESISTANCE IN A CALIFORNIA CULEX MOSQUITO  
MOUCHES C; PASTEUR N; BERGE J B; HYRIEN O; RAYMOND M; DE SAINT VINCENT B  
R; DE SILVESTRI M; GEORGHIOU G P  
INST. NATL. DE LA RECHERCHE AGRONOMIQUE, STATION RECHERCHES NEMATOL. ET  
GENETIQUE MOLECULAIRE DES INVERTEBRES, B.P. 2078, 06606 ANTIBES, FR.  
SCIENCE (WASH D C) 233 (4765). 1986. 778-780. CODEN: SCIEA  
Language: ENGLISH

2/3/102 (Item 8 from file: 5)  
5362259 BIOSIS Number: 82007062  
ORGANOPHOSPHORUS ANTICHOLINESTERASES DO NOT MEDIATE ANALGESIA THROUGH  
INHIBITION OF ENKEPHALIN DEGRADATION  
MARCHNER H; HARALDSSON S; LUNDBERG S  
NATL. DEFENCE RES. INST., DIV. EXPERIMENTAL MED. DEP. 4, S-901 82 UMEA,  
SWEDEN.  
LIFE SCI 38 (14). 1986. 1317-1322. CODEN: LIFSA  
Full Journal Title: Life Sciences  
Language: ENGLISH

2/3/103 (Item 9 from file: 5)  
4927299 BIOSIS Number: 80054610  
ANALYSIS OF SOMAN AND SARIN IN BLOOD UTILIZING A SENSITIVE GAS  
CHROMATOGRAPHY-MASS SPECTROMETRY METHOD  
SINGH A K; ZELEZNIKAR R J JR; DREWES L R  
DEP. BIOCHEM., SCH. MED., UNIV. MINN., DULUTH, MN 55812.  
J CHROMATOGR 324 (1). 1985. 163-172. CODEN: JOCRA  
Full Journal Title: Journal of Chromatography  
Language: ENGLISH

2/3/104 (Item 10 from file: 5)  
4893637 BIOSIS Number: 80020948  
JOINT ACTION OF INSECTICIDE AND SYNERGIST MIXTURES ON THE DIAMONDBACK  
MOTH PLUTELLA-XYLOSTELLA  
FENG H T  
PESTICIDE TOXICOL. DIV., PLANT PROTECTION CENT., TAIWAN, WUFENG, TAIWAN.  
PLANT PROT BULL 26 (4). 1984 (RECD. 1985). 401-412. CODEN: PLPBB  
Full Journal Title: Plant Protection Bulletin  
Language: ENGLISH

2/3/105 (Item 11 from file: 5)  
4413818 BIOSIS Number: 77089145  
OSTEOGENIC PERIOSTEUM ESTERASE ACTIVITY A COMPARATIVE MORPHOLOGICAL AND  
CYTOCHEMICAL STUDY OF BONE CELLS IN-SITU ON RAT PROXIMAL TIBIAE AND IN  
SMEARS  
RIES W L  
DEP. PERIODONTICS, SCH. DENTISTRY, MED. COLL. VA., VA. COMMONWEALTH  
UNIV., RICHMOND, VA. 23298.  
J HISTOCHEM CYTOCHEM 32 (1). 1984. 55-62. CODEN: JHCYA  
Full Journal Title: Journal of Histochemistry and Cytochemistry  
Language: ENGLISH

2/3/106 (Item 12 from file: 5)  
4364383 BIOSIS Number: 77039710  
EFFECT OF PRE TREATMENT WITH SODIUM PHENO BARBITAL ON THE TOXICITY OF  
SOMAN IN MICE  
CLEMENT J G  
BIOMEDICAL SECT., DEFENCE RESEARCH ESTABLISHMENT SUFFIELD, RALSTON,  
ALBERTA, CANADA T0J 2N0.  
BIOCHEM PHARMACOL 32 (8). 1983. 1411-1416. CODEN: BCPA  
Full Journal Title: Biochemical Pharmacology  
Language: ENGLISH

2/3/107 (Item 13 from file: 5)  
4117776 BIOSIS Number: 76067627  
PURIFICATION OF A BACTERIAL ALCALIGENES NC-5 ORGANO PHOSPHATE HYDROLYZING  
PHOSPHATASE BY CIBACRON 3-GA SEPHAROSE AFFINITY CHROMATOGRAPHY  
PAI S B  
NATL. INST. ENVIRON. HEALTH SCI., P.O. BOX 12233, RESEARCH TRIANGLE PARK,  
N.C. 27709.  
BIOCHEM BIOPHYS RES COMMUN 110 (2). 1983. 412-416. CODEN: BBRCA  
Full Journal Title: Biochemical and Biophysical Research Communications  
Language: ENGLISH

2/3/108 (Item 14 from file: 5)  
4100011 BIOSIS Number: 76049862  
THE BIOCHEMICAL BASIS OF RESISTANCE TO ORGANO PHOSPHORUS INSECTICIDES IN  
THE SHEEP BLOW FLY LUCILIA-CUPRINA  
HUGHES P B; DEVONSHIRE A L  
BIOL. CHEM. RES. INST., N.S.W. DEP. AGRIC., RYDALMERE, 2116, AUST.  
PESTIC BIOCHEM PHYSIOL 18 (3). 1982. 289-297. CODEN: PCBPB  
Full Journal Title: Pesticide Biochemistry and Physiology  
Language: ENGLISH

2/3/109 (Item 15 from file: 5)  
4039493 BIOSIS Number: 75086852  
A CARBOXYL ESTERASE WITH BROAD SUBSTRATE SPECIFICITY CAUSES ORGANO  
PHOSPHORUS CARBAMATE AND PYRETHROID RESISTANCE IN PEACH POTATO APHIDS  
MYZUS-PERSICAE  
DEVONSHIRE A L; MOORES G D

DEP. INSECTICIDES FUNGICIDES, ROTHAMSTED EXP. STATION, HARPENDEN,  
HERTFORDSHIRE, UK.

PESTIC BIOCHEM PHYSIOL 18 (2). 1982. 235-246. CODEN: PCBPB

Full Journal Title: Pesticide Biochemistry and Physiology

Language: ENGLISH

2/3/110 (Item 16 from file: 5)

4000833 BIOSIS Number: 75048192

CHARACTERIZATION OF GLUTATHIONE S TRANSFERASES IN RELATION TO  
AZINPHOS-METHYL RESISTANCE

MOTOYAMA N

LAB. ENVIRON. BIOL., FAC. HORTIC., CHIBA UNIV., MATSUDO, CHIBA 271, JPN.

J PESTIC SCI (NIHON NOYAKU GAKKAISHI) 7 (3). 1982. 415-426. CODEN:

NNGAD

Language: JAPANESE

2/3/111 (Item 17 from file: 5)

3731206 BIOSIS Number: 74031069

EFFECTS OF THE FUNGICIDE DI ISO PROPYL-S-BENZYL PHOSPHOROTHIOLATE AS A  
SYNERGIST ON THE METABOLISM OF MALATHION IN INSECTS

YEOH C L; KUWANO E; ETO M

RES. AND DEVELOPMENT DEP., AGRICULTURAL CHEM. M SDN. BHD., P.O. BOX 78,  
BUTTERWORTH, PENANG, MALAYSIA.

J PESTIC SCI (NIHON NOYAKU GAKKAISHI) 7 (1). 1982. 31-40. CODEN: NNGAD

Language: ENGLISH

2/3/112 (Item 18 from file: 5)

3616917 BIOSIS Number: 73009284

IN-VITRO DEGRADATION OF ORGANO PHOSPHORUS ACARICIDES BY THE MITES  
SANCASSANIA-BERLESEI TYROGLYPHIDAE AND TETRANYCHUS-URTICAE TETRANYCHIDAE  
BLANK R H

AGRICULTURAL RESEARCH DIV., MINISTRY OF AGRICULTURE, P.B., WHANGAREI, NEW  
ZEALAND.

N Z J AGRIC RES 23 (4). 1980 (RECD. 1981). 589-593. CODEN: NEZFA

Full Journal Title: New Zealand Journal of Agricultural Research

Language: ENGLISH

2/3/113 (Item 19 from file: 5)

3111570 BIOSIS Number: 70061477

THE EFFECT OF HEPATIC MICROSOMAL MONO OXYGENASE INDUCTION ON THE  
METABOLISM AND TOXICITY OF THE ORGANO PHOSPHORUS INSECTICIDE  
CHLORFENVINPHOS

HUTSON D H; WRIGHT A S

SHELL TOXICOL. LAB., SHELL RES. LTD., SITTINGBOURNE, KENT ME9 8AG, ENGL.,  
UK.

CHEM-BIOL INTERACT 31 (1). 1980. 93-102. CODEN: CBINA

Full Journal Title: Chemico-Biological Interactions

Language: ENGLISH

2/3/114 (Item 20 from file: 5)

2751358 BIOSIS Number: 68006265

COMPARATIVE IN-VITRO METABOLISM OF TETRACHLORVINPHOS BY THE SOLUBLE  
FRACTION 105000 GRAVITY FROM SHEEP PIG AND COW LIVER HOMOGENATES

AKHTAR M H; FOSTER T S

ANIM. RES. INST., AGRIC. CAN. RES. BRANCH, OTTAWA, ONT. K1A 0C6, CAN.

J AGRIC FOOD CHEM 27 (1). 1979. 113-116. CODEN: JAFCA

Full Journal Title: Journal of Agricultural and Food Chemistry

Language: ENGLISH

2/3/115 (Item 21 from file: 5)

2701056 BIOSIS Number: 67038459

INSECTICIDAL PROPERTIES ANTI ESTERASE ACTIVITIES AND METABOLISM OF METHAMIDOPHOS

KHASAWINAH A M A; MARCH R B; FUKUTO T R

UNION CARBIDE CORP., P.O. BOX 8361, SOUTH CHARLESTON, W. VA. 25303, USA.

PESTIC BIOCHEM PHYSIOL 9 (2). 1978 211-221. CODEN: PCBPB

Full Journal Title: Pesticide Biochemistry and Physiology

Language: ENGLISH

2/3/116 (Item 22 from file: 5)

2460790 BIOSIS Number: 66007695

STUDIES ON THE INTERACTION OF THE JUVENILE HORMONE ANALOG R-20458 AND THE ORGANO PHOSPHORUS COMPOUND DURSABAN ON THE REPRODUCTIVE BIOLOGY OF MATACIL SUSCEPTIBLE AND RESISTANT STRAINS OF SPODOPTERA-LITTORALIS

EL-GUINDY M A; ABDEL-SATTAR M M; EL-ASSAR M R S

CENT. AGRIC. PEST. LABOR., MINIST. AGRIC., DOKKI, EGYPT.

Z ANGEW ENTOMOL 84 (4). 1977 (RECD 1978) 424-430. CODEN: ZANEA

Full Journal Title: Zeitschrift fuer Angewandte Entomologie

Language: ENGLISH

2/3/117 (Item 23 from file: 5)

2394802 BIOSIS Number: 65021210

PURIFICATION AND PROPERTIES OF HOUSE FLY GLUTATHIONE S TRANSFERASE

MOTOYAMA N; DAUTERMAN W C

DEP. ENTOMOL., N.C. STATE UNIV., RALEIGH, N.C. 27607, USA.

INSECT BIOCHEM 7 (4). 1977 361-370. CODEN: ISBCA

Full Journal Title: Insect Biochemistry

Language: ENGLISH

2/3/118 (Item 24 from file: 5)

1974139 BIOSIS Number: 62063699

EFFECT OF PHOSPHATASES ON THE PERSISTENCE OF ORGANO PHOSPHORUS INSECTICIDES IN SOIL AND WATER

HEUER B; BIRK Y; YARON B

J AGRIC FOOD CHEM 24 (3). 1976 611-614. CODEN: JAFCA

Full Journal Title: Journal of Agricultural and Food Chemistry

2/3/119 (Item 1 from file: 73)

8917110 EMBASE No: 93220826

Effect of some metallic cations and organic compounds on the O-hexyl O-2,5-dichlorophenyl phosphoramidate hydrolysing activity in hen plasma

Sogorb M.A.; Diaz-Alejo N.; Vilanova E.; Vicedo J.L.; Carrera V.

Department of Neurochemistry, University of Alicante, E-03080 Alicante Spain

ARCH. TOXICOL. (Germany) , 1993, 67/6 (416-421) CODEN: ARTOD ISSN:

0340-5761 ADONIS ORDER NUMBER: 034057619300068X

LANGUAGES: English SUMMARY LANGUAGES: English

2/3/120 (Item 2 from file: 73)

8901657 EMBASE No: 93205386

Screening of halophilic bacteria and Alteromonas species for organophosphorus hydrolyzing enzyme activity

DeFrank J.J.; Beaudry W.T.; Cheng T.-C.; Harvey S.P.; Stroup A.N.; Szafraniec L.L.

U.S. Army Edgewood-Research, Development and Engineering Center, Biochemical Decontamination Team, Aberdeen Proving Ground, MD 21010 USA

CHEM.-BIOL. INTERACT. (Ireland) , 1993, 87/1-3 (141-148) CODEN: CBINA

ISSN: 0009-2797 ADONIS ORDER NUMBER: 000927979300051B

LANGUAGES: English SUMMARY LANGUAGES: English

2/3/121 (Item 3 from file: 73)

8505381 EMBASE No: 92181319

Extractive derivatization of aqueous drugs using polymeric phase transfer catalysts. I. Sensitive analyses of dialkyl phosphates as pentafluorobenzyl derivatives

Miki A.; Tsuchihashi H.; Ueda K.; Yamashita M.

Forensic Science Laboratory, Osaka Prefect. Police Headquarters, 3-1-16, Otemae, Chuo-ku, Osaka 540 Japan

JPN. J. TOXICOL. ENVIRON. HEALTH (Japan) , 1992, 38/2 (168-175) CODEN: JJTHE ISSN: 0013-273X

LANGUAGES: Japanese SUMMARY LANGUAGES: English

2/3/122 (Item 4 from file: 73)

6128965 EMBASE No: 86124025

Carboxyesterases, importance for detoxification of organophosphorus anticholinesterases and trichothecenes

Fonnum F.; Sterri S.H.; Aas P.; Johnsen H.

Norwegian Defence Research Establishment, Division for Environmental Toxicology, N-2007 Kjeller NORWAY

FUNDAM. APPL. TOXICOL. (USA) , 1985, 5/6II (S29-S38) CODEN: FAATD

LANGUAGES: ENGLISH

2/3/123 (Item 5 from file: 73)

5733846 EMBASE No: 84229512

In vitro deacetylation studies of acetamidophenolic compounds in rat brain, liver and kidney

Baumann J.; Von Bruchhausen F.; Wurm G.

Institut fur Pharmakologie der Freien Universitat, D-1000 Berlin 33 GERMANY, WEST

ARZNEIM.-FORSCH./DRUG RES. (GERMANY, WEST) , 1984, 34/10 (1278-1282)

CODEN: ARZNA

LANGUAGES: ENGLISH SUMMARY LANGUAGES: GERMAN

2/3/124 (Item 6 from file: 73)

5542235 EMBASE No: 84037901

Effect of repeated oral administration on quinalphos in blood esterases in Bubalus bubalis

Srivastava A.K.; Paul B.S.; Malik J.K.

Department of Pharmacology, Punjab Agriculture University, Ludhiana 141004 INDIA

TOXICOL. LETT. (NETHERLANDS) , 1983, 19/1-2 (165-169) CODEN: TOLED

LANGUAGES: ENGLISH

2/3/125 (Item 7 from file: 73)

5360761 EMBASE No: 83112366

Purification of a bacterial organophosphate-hydrolysing phosphatase by Cibacron 3GA-Sepharose affinity chromatography

Balakrishna Pai S.

Microbiol. Cell Biol. Lab., Indian Inst. Sci., Bangalore-560012 INDIA

BIOCHEM. BIOPHYS. RES. COMMUN. (USA) , 1983, 110/2 (412-416) CODEN: BBRCA

LANGUAGES: ENGLISH

2/3/126 (Item 8 from file: 73)

5357252 EMBASE No: 83108840

The biochemical basis of resistance to organophosphorus insecticides in the sheep blowfly, *Lucilia cuprina*

Hughes P.B.; Devonshire A.L.

Biol. Chem. Res. Inst., New South Wales Dep. Agric., Rydalmere, 2116 AUSTRALIA

PESTIC. BIOCHEM. PHYSIOL. (USA) , 1982, 18/3 (289-297) CODEN: PCBPB  
LANGUAGES: ENGLISH

2/3/127 (Item 9 from file: 73)  
1559359 EMBASE No: 80060234

Non-enzymatic oxidation and reduction chemical model systems for the study of pesticide transformation

Worobey B.L.; Webster G.R.B.

Pesticide Res. Lab., Dept. Soil Sci., Univ. Manitoba, Winnipeg, Manitoba  
R3T 2N2 CANADA

TOXICOL. ENVIRON. CHEM. REV. (ENGLAND) , 1979, 3/1 (1-60) CODEN: TXECB  
LANGUAGES: ENGLISH

2/3/128 (Item 10 from file: 73)  
833473 EMBASE No: 77216981

Interactions between insecticides and soil microbes

Tu C.M.; Miles J.R.W.

Res. Inst., Agric. Canada, London CANADA

RESIDUE REV. (--), 1976, Vol.64 (17-65) CODEN: RREVA  
LANGUAGES: ENGLISH

2/3/129 (Item 11 from file: 73)  
459665 EMBASE No: 76040952

Toxicity of DFP and related compounds to squids in relation to cholinesterase inhibition and detoxifying enzyme levels

Dettbarn W.D.; Hoskin C.G.

Pharmacol. Dept., Vanderbilt Univ., Nashville, Tenn. USA

BULL. ENVIRON. CONTAMIN. TOXICOL. (GERMANY, WEST) , 1975, 13/2 (133-140)  
CODEN: BECTA  
LANGUAGES: ENGLISH

2/3/130 (Item 12 from file: 73)  
284387 EMBASE No: 75075275

Chemical aspects of the loss of insecticides from soil

PROC. 7TH BRIT. INSECT. FUNG. CONGRESS 1973

Beynon K.I.

Shell Research Ltd., Sittingbourne UNITED KINGDOM

BRIT. CROP PROTECT. COUNC. PUBL. (--), 1973, (791-810) CODEN: BOOKA  
LANGUAGES: ENGLISH

2/3/131 (Item 13 from file: 73)  
235122 EMBASE No: 75023888

Increase in toxicity of sup 1sup 4C insecticides with polychlorinated biphenyl compounds

RADIOTRACER STUDIES OF CHEMICAL RESIDUES IN FOOD AND AGRICULTURE

Lichtenstein E.P.

Dept. Entomol., Univ. Wisconsin, Madison, Wis. USA

IAEA PANEL PROC. SER. (--), 1972, (137-142) CODEN: BOOKA  
LANGUAGES: ENGLISH

2/3/132 (Item 14 from file: 73)  
014525 EMBASE No: 74014704

Effect of liver enzyme induction on paraoxon metabolism in the rat

Te Yeh Ku; Dahm P.A.

Dept. Zool. Entomol., Iowa State Univ., Ames, Ia. 50010 USA

PESTIC. BIOCHEM. PHYSIOL. (USA) , 1973, 3/2 (175-188) CODEN: PCBPB  
LANGUAGES: ENGLISH

2/3/133 (Item 1 from file: 144)  
11073112 PASCAL No.: 93-0580122

Effect of some metallic cations and organic compounds on the O-hexyl  
O-2,5-dichlorophenyl phosphoramidate hydrolysing activity in hen plasma  
SOGORB M A; DIAZ-ALEJO N; VILANOVA E; VICEDO J L; CARRERA V  
Univ. Alicante, dep. neurochemistry, 03080 Alicante, Spain  
Journal: Archives of toxicology, 1993, 67 (6) 416-421  
Language: English

2/3/134 (Item 2 from file: 144)  
11065899 PASCAL No.: 93-0572908  
Biological degradation of explosives and chemical agents  
WALKER J E; KAPLAN D L  
ROSENBERG E, ed  
US Army Natick res., development eng. cent., Natick MA 01760-5020, USA  
Tel Aviv univ., dep. molecular microbiology biotechnology, Ramat Aviv,  
Israel  
Rothschild Foundation for the Advancement of Science, Israel.  
Microorganisms to combat pollution. International workshop (ISR)  
1992-05-10  
Journal: Biodegradation : (Dordrecht), 1992, 3 (2-3) 369-385  
Language: English

2/3/135 (Item 3 from file: 144)  
10685726 PASCAL No.: 93-0195023  
Catalytic properties of cyclodextrins on the hydrolysis of parathion and  
paraoxon in aquatic medium containing humic acids  
KAMIYA M; MITSUHASHI S; MAKINO M  
Univ. Shizuoka, graduate school environmental health sci., Yada,  
Shizuoka-shi 422, Japan  
Journal: Chemosphere : (Oxford), 1992, 25 (12) 1783-1796  
Language: English

2/3/136 (Item 4 from file: 144)  
10201960 PASCAL No.: 92-0407862  
Solid-state SUP 3 SUP 1 P MAS NMR study of the distribution and reaction  
or organophosphorus esters adsorbed on synthetic resin catalysts  
BEAUDRY W T; WAGNER G W; WARD J R  
Eng. cent., U.S. army chemical res. development, res. directorate,  
Aberdeen Proving Ground MD 21010, USA  
Journal: Journal of molecular catalysis, 1992, 73 (1) 77-90  
Language: English

2/3/137 (Item 5 from file: 144)  
09673382 PASCAL No.: 91-0470510  
Purification and properties of an organophosphorus acid anhydrase from a  
halophilic bacterial isolate  
DEFRANK J J; TU-CHEN CHENG  
Development eng. cent., U.S. army chemical res., biotechnology div.,  
Aberdeen Proving Ground MD 21010-5423, USA  
Journal: Journal of bacteriology, 1991, 173 (6) 1938-1943  
Language: English

2/3/138 (Item 6 from file: 144)  
09048124 PASCAL No.: 90-0216454  
Enzyme activity in soils showing enhanced degradation of organophosphate  
insecticides  
SIKORA L J; KAUFMAN D D; HORNG L C  
Beltsville agricultural res. lab., soil-microbial system lab., Beltsville  
MD 20705, USA  
Journal: Biology and fertility of soils, 1990, 9 (1) 14-18  
Language: English

- 2/3/139 (Item 7 from file: 144)  
 08953941 PASCAL No.: 90-0122077  
 Catalytic hydrolysis of quinalphos on homoionic clays  
 PUSINO A; GESSA C; KOZLOWSKI H  
 Univ. Sassari, ist. chimica agraria, Sassari 07100, Italy  
 Journal: Pesticide Science, 1988, 24 (1) 1-8  
 Language: English
- 2/3/140 (Item 8 from file: 144)  
 08948192 PASCAL No.: 90-0116329  
 Organofluorophosphate-hydrolyzing activity in an estuarine clam, Rangia cuneata  
 ANDERSON R S; DURST H D; LANDIS W G  
 Univ. Maryland, Chesapeake biological lab., Solomons MD 20688, USA  
 Journal: Comparative biochemistry and physiology. C. Comparative pharmacology and toxicology, 1988, 91 (2) 575-578  
 Language: English
- 2/3/141 (Item 9 from file: 144)  
 08841312 PASCAL No.: 90-0009175  
 In vitro degradation of malathion by the small brown planthopper, Laodelphax striatellus (FALLEN), and the brown rice planthopper, Nilaparvata lugens (STAL) (Hemiptera: Delphacidae)  
 MIYATA T; SAITO T; KASSAI T; OZAKI K  
 Nagoya univ., fac. agriculture, lab. applied entomology nematology, Nagoya 464-01, Japan  
 Journal: Applied Entomology and Zoology, 1989, 24 (2) 240-241  
 Language: English
- 2/3/142 (Item 10 from file: 144)  
 07947075 PASCAL No.: 87-0475528  
 Discovery of multiple organofluorophosphate hydrolyzing activities in the protozoan Tetrahymena thermophila  
 LANDIS W G; HALEY D M; HALEY M V; JOHNSON D W; DURST H D; SAVAGE R E JR  
 Chemical res. development cent., Aberdeen Proving ground MD 21010-5423, USA  
 Journal: Journal of applied toxicology, 1987, 7 (1) 35-41  
 Language: ENGLISH
- 2/3/143 (Item 11 from file: 144)  
 07253576 PASCAL No.: 86-0142453  
 In vitro degradation of the four isomers of soman in human serum  
 DE BISSCHOP H C; MAINIL J G; WILLEMS J L  
 Tech. div. Army, Vilvoorde 1801, Belgium  
 Journal: Biochemical pharmacology, 1985, 34 (11) 1895-1900  
 Language: ENGLISH
- 2/3/144 (Item 12 from file: 144)  
 05964857 PASCAL No.: 85-0150178  
 The chemical stability of formulations of some hydrolyzable insecticides in aqueous mixtures with hydrolysis catalysts  
 CHAPMAN R A; HARRIS C  
 Res. cent., London ON N6C 2V4, Canada  
 Journal: Journal of environmental science and health. Part B. Pesticides, food contaminants, and agricultural wastes, 1984, 19 (4-5) 397-407  
 Language: English
- 2/3/145 (Item 13 from file: 144)  
 05155548 PASCAL No.: 83-0418673



The biochemistry of insecticide resistant hopper races  
VOSS G  
CIBA-GEIGY LTD, agricultural div., Basle, Switzerland  
International workshop on biotaxonomy, classification and biology of  
leafhoppers and planthoppers (Auchenorrhyncha) of economic importance (

London) 1982

1983 351-357

Publisher: Commonwealth inst. entomology, London

Language: English

2/3/146 (Item 14 from file: 144)

05038971 PASCAL No.: 83-0294719

Enzymatic hydrolysis of malathion and other dithioate pesticides  
(hydrolyse enzymatique de malathion et d'autres pesticides dithioate)

BARIK S; MUNNECKE D M; FLETCHER J S

Univ. Oklahoma, dep. botany microbiology, Norman OK, USA

Journal: Biotechnology letters, 1982, 4 (12) 795-798

Language: English

2/3/147 (Item 15 from file: 144)

04780732 PASCAL No.: 83-0021576

Selective inhibition of separate esterases in rat and mouse liver  
microsomes hydrolyzing malathion, transpermethrin, and cis-permethrin

SODERLUND D M; ABDEL-AAL Y A I; HELMUTH D W

Cornell univ., dep. entomol., Geneva NY 14456, USA

Journal: Pestic. Biochem. Physiol., 1982, 17 (2) 162-169

Language: English

2/3/148 (Item 16 from file: 144)

04034474 PASCAL No.: 75-0004668

ORGANOPHOSPHATE SPLITTING SERUM ENZYMES IN DIFFERENT MAMMALS

ZECH R; ZUERCHER K

PHYSIOL.-CHEM. INST., UNIV., D-34 GOETTINGEN, FEDERAL REPUBLIC OF GERMANY

Journal: COMP. BIOCHEM. PHYSIOL., B, 1974, 48 (3) 427-433

Language: ENGLISH

2/3/149 (Item 17 from file: 144)

02907571 PASCAL No.: 80-0355640

ENZYMATIC DETOXIFICATION OF WASTE ORGANOPHOSPHATE PESTICIDES

MUNNECKE D M

FORSCHUNGSANSTALT LANDWIRTSCHAFT, BRAUNSCHWEIG 3300, FEDERAL REPUBLIC OF  
GERMANY

Journal: J. AGRIC. FOOD CHEM., 1980, 28 (1) 105-111

Language: ENGLISH

2/3/150 (Item 18 from file: 144)

02358793 PASCAL No.: 79-0429467

BIODEGRADATION OF PHOSPHONATE TOXICANTS YIELDS METHANE OR ETHANE ON  
CLEAVAGE OF THE C-P BOND

DAUGHTON C G; COOK A M; ALEXANDER M

CORNELL UNIV. DEP. AGRON., ITHACA NY 14853, USA

Journal: F.E.M.S. MICROBIOL. LETTERS, 1979, 5 (2) 91-93

Language: ENGLISH

2/3/151 (Item 19 from file: 144)

02321593 PASCAL No.: 79-0345119

IN VITRO METABOLISM OF ETRIMFOS BY RAT AND MOUSE LIVER

IOANNOU Y M; DAUTERMAN W C

NORTH CAROLINA STATE UNIV. DEP. ENTOMOL., RALEIGH NC 27650, USA

Journal: PESTIC. BIOCHEM. PHYSIOL., 1978, 9 (2) 190-195

Language: ENGLISH

2/3/152 (Item 20 from file: 144)

02294712 PASCAL No.: 79-0281910

IN VITRO METABOLISM OF DESMETHYL TETRACH LORVINPHOS BY SOLUBLE FRACTION  
(105000 G) FROM CHICKEN LIVER HOMOGENATES

HUMAYOUN AKHTAR M

AGRICULT. CANADA ANIMAL RESEARCH INST., OTTAWA ONT. K1A 0C6, CANADA

Journal: J. AGRIC. FOOD CHEM., 1978, 26 (4) 932-935

Language: ENGLISH

2/3/153 (Item 21 from file: 144)

02238546 PASCAL No.: 79-0141914

ZUR KINETIK DES PARAOXON-SPALTENDEN ENZYMS IM MENSCHLICHEN SERUM (EC  
3.1.1.2)

(CINETIQUE DE L'ENZYME HYDROLYSANT LE PARAOXON DANS LE SERUM HUMAIN (EC  
3.1.1.2))

FLUGEL M; GELDMACHER-VON MALLINCKRODT M

UNIV. ERLANGEN-NUERNBERG INST. RECHTSMED., ERLANGEN, FEDERAL REPUBLIC OF  
GERMANY

Journal: KLIN. WCHR., 1978, 56 (18) 911-916

Language: GERMAN Summary Language: ENGLISH

2/3/154 (Item 22 from file: 144)

01455465 PASCAL No.: 77-0104259

~~ENZYMATIC~~ HYDROLYSIS OF ORGANOPHOSPHATE INSECTICIDES, A POSSIBLE,  
PESTICIDE DISPOSAL METHOD.

MUNNECKE D M

INST. BODENBIOL., BRAUNSCHWEIG, FEDERAL REPUBLIC OF GERMANY

Journal: ~~APPL. ENVIRONMENT. MICROBIOL.~~, 1976, 32 (1) 7-13

Language: ENGLISH

2/3/155 (Item 23 from file: 144)

00964156 PASCAL No.: 76-0114963

ENZYMATIC HYDROLYSIS OF MALAOXON BY MOUSE LIVER HOMOGENATES.

(L'HYDROLYSE ENZYMATIQUE DU MALAOXON PAR DES HOMOGENATS DE FOIE DE SOURIS

)

BHAGWAT V M; RAMACHANDRAN B V

NATL. CHEM. LAB., POONA 411 008, INDIA

Journal: BIOCHEM. PHARMACOL., 1975, 24 (21) 2002-2003

Language: ENGLISH

2/3/156 (Item 24 from file: 144)

00495330 PASCAL No.: 74-0007186

ORGANOPHOSPHATE DEGRADATION BY INSECTICIDE-RESISTANT AND SUSCEPTIBLE  
POPULATIONS OF MOSQUITOFISH (GAMBUSIA AFFINIS)

CHAMBERS J E; YARBROUGH J D

DEP. ZOOL., MISSISSIPPI STATE UNIV., MISSISSIPPI STATE, MISS.

Journal: PESTIC. BIOCHEM. PHYSIOL., 1973, 3 (3) 312-316

Language: ENGLISH

2/3/157 (Item 1 from file: 76)

1728289 82002774134

Interactive effects of pesticides in the hybrid red-legged partridge.

Johnston, G.; Walker, C.H.; Dawson, A.; Furnell, A.

Biochem. and Physiol. Dep., Sch. Anim. and Microb. Sci., AMS Build.,

Univ. Reading, Whiteknights, P.O. Box 228, Reading RG6 2AJ, UK

FUNCT. ECOL.; 4(3), pp. 309-314 1990

Language: English Summary Language: English

2/3/158 (Item 2 from file: 76)

1472628 82002276777

Inactivation of organophosphorus nerve agents by the phosphotriesterase from *Pseudomonas diminuta*.

Dumnas, D.P.; Durst, H.D.; Landis, W.G.; Raushel, F.M.; Wild, J.R.

Dep. Chem., Texas A&M Univ., College Station, TX 77843, USA

ARCH. BIOCHEM. BIOPHYS.; 277(1), pp. 155-159 1990

Language: English Summary Language: English

2/3/159 (Item 3 from file: 76)

1225149 82001734276

Use of microorganisms and microbial systems in the degradation of pesticides.

Karns, J.S.; Muldoon, M.T.; Mulbry, W.W.; Derbyshire, M.K.; Kearney, P.C.

Pesticide Degradation Lab., Agric. Res. Serv., US Dep. Agric.,

Beltsville, MD 20705, USA

ACS SYMP. SER.; (334)

Publ. by: AMERICAN CHEMICAL SOCIETY, WASHINGTON, DC (USA), 1987, pp. 156-170 1987

In BIOTECHNOLOGY IN AGRICULTURAL CHEMISTRY. LeBaron, H.M.; Mumma, R.O.; Honeycutt, R.C.; Duesing, J.H. (eds.)

Language: English Summary Language: English

2/3/160 (Item 4 from file: 76)

1222893 82001729166

Relationship between age of mice, enzymes such as acetylcholinesterase and aliesterase, and toxicity of soman (pinacolyl methyl-phosphonofluoridate).

Anon.

BIOCHEM. PHARMACOL.; 36(21), pp. 3777-3779 1987

Language: English

2/3/161 (Item 5 from file: 76)

0977199 82001067491

Synergism of organophosphorus insecticides by diethyl maleate and related compounds in house flies.

Welling, W.; de Vries, J.W.

Inst. Pestic. Res., Marijkeweg 22, 6709 PG Wageningen, Netherlands

PESTIC. BIOCHEM. PHYSIOL.; 23(3), pp. 358-369 1985

Language: English Summary Language: English

2/3/162 (Item 6 from file: 76)

0969462 82001035853

Joint action of insecticide-synergist mixtures on the diamondback moth.

Feng, H.T.

Pestic. Toxicol. Div., Plant Prot. Cent. Taiwan, Wufeng, Taiwan

PLANT PROT. BULL. (TAIWAN); 26(4), pp. 401-412 1983

Language: English Summary Language: Chinese; English

2/3/163 (Item 7 from file: 76)

0937414 82000950086

Use of new organophosphorus inhibitors containing the carbomethoxyl group for the identification of insect carboxylesterases.

Volkova, R.I.; Titova, E.V.; Kabachnik, M.I.; Mastryukova, T.A.; Shipov, A.E.; Zhdanova, G.V.

I.M. Sechenov Inst. Evol. Physiol. and Biochem., Acad. Sci. USSR, Leningrad, USSR

DOKL. BIOCHEM.; 270(1-6), pp. 179-181 1983

Language: English

2/3/164 (Item 8 from file: 76)

0933647 82000942108

Effect of monocrotophos, an organophosphorus insecticide, on the activities of some phosphatases and ATPases in the brain of *Tilapia mossambica*.

Joshi, U.M.; Desai, A.K.

Dep. Zool., Fac. Sci., M.S. Univ. Baroda, Baroda-390 002, India

J. ANIM. MORPHOL. PHYSIOL.; 30(1-2), pp. 201-207 1983

Language: English Summary Language: English

2/3/165 (Item 9 from file: 76)

0824439 82000668120

Effect of endogenous protease activity on sodium dodecyl sulphate electrophoresis of homogenates of peach-potato aphids (*Myzus persicae*, Sulz).

Devonshire, A.L.; Moores, G.D.

Dep. Insecticides and Fungicides, Rothamsted Exp. Stn., Harpenden, Herts., AL5 2JQ, UK

J. CHROMATOGR.; 280(1), pp. 194-196 1983

Language: English Summary Language: English

2/3/166 (Item 10 from file: 76)

0723072 82000414365

Purification of a bacterial organophosphate-hydrolysing phosphatase by Cibacron 3GA-Sepharose affinity chromatography.

Pai, S.B.

Natl. Inst. Environ. Health Sci., P.O. Box 12233, Research Triangle Park, NC 27709, USA

BIOCHEM. BIOPHYS. RES. COMMUN.; 110(2), pp. 412-416 1983

Language: English Summary Language: English

2/3/167 (Item 11 from file: 76)

0660267 82000245089

Properties of a *Pseudomonas* sp.-Derived Parathion Hydrolase Immobilized to Porous Glass and Activated Alumina.

Talbot, H.W.; Johnson, L.; Barik, S.; Williams, D.

Dep. Bot/Microbiol., Univ. Oklahoma, Norman, OK 73019, USA

BIOTECHNOL. LETT.; 4(3), pp. 209-214 1982

Language: English

2/3/168 (Item 12 from file: 76)

0615004 82000118775

In Vitro Degradation of Organophosphorus Acaricides by the Mites *Sancassania berlesei* (Tyroglyphidae) and *Tetranychus urticae* (Tetranychidae).

Blank, R.H.

Agric. Res. Div., Min. Agric. & Fish., P.B., Whangarei, New Zealand

N.Z. J. AGRIC. RES.; 23(4), pp. 589-593 1980

Language: English Summary Language: English

2/3/169 (Item 13 from file: 76)

26700 78051221828

Purification and properties of housefly glutathione S-transferase.;

Motoyama, N.; Dauterman, W.C.

(Toxicol. Program, Dep. Entomol., N. Carolina State Univ., Raleigh, NC 27607, USA)

Insect Biochem. ; 7(4), 361-369 1977 ;

Language: English; Summary Language: English

2/3/170 (Item 14 from file: 76)

8703 78031203965

The breakdown of malathion in soil and soil components.;

Gibson, W.P. ; Burns, R.G.

(Biol.Lab., Univ.Kent, Canterbury, Kent CT2 7NJ, UK)

~~Microb.Ecol.~~; 3(3), 219-230 1977 ;

Language: English; Summary Language: English

2/3/171 (Item 1 from file: 53)

1504336 OE071-01596

A carboxylesterase with broad substrate specificity causes organophosphorus, carbamate and pyrethroid resistance in peach--potato aphids (*Myzus persicae*).

Devonshire, A. L.; Moores, G. D.

Department of Insecticides and Fungicides, Rothamsted Experimental Station, Harpenden, Herts., UK.

Pesticide Biochemistry and Physiology 1982. 18 (2): 235-246 (37 ref., 3 fig.)

Language: English

2/3/172 (Item 2 from file: 53)

1500740 OE071-07686

Pyrethroid synergism by esterase inhibition in *Spodoptera littoralis* (Boisduval) larvae.

Ishaaya, I.; Ascher, K. R. S.; Casida, J. E.

Division of Entomology, The Volcani Center, ARO, Bet Dagan 50-250, Israel.

Crop Protection 1983. 2 (3): 335-343 (16 ref., 4 fig.)

Language: English

2/3/173 (Item 3 from file: 53)

1342406 OE070-07317; OJ070-03514

Effects of the fungicide IBP as a synergist on the metabolism of malathion in insects.

Yeoh, C. L.; Kuwano, E.; Eto, M.

Department of Agricultural Chemistry, Kyushu University, Fukuoka 812, Japan.

Journal of Pesticide Science 1982. 7 (1): 31-40 (25 ref.)

Language: English Summary Language: Japanese

2/3/174 (Item 4 from file: 53)

1337585 OJ070-01548

Studies on the mechanisms of organophosphate resistance in oriental houseflies, *Musca domestica vicina* Macquart (Diptera: Muscidae).

Yeoh, C. L.; Kuwano, E.; Eto, M.

Department of Agricultural Chemistry, Kyushu University, Fukuoka 812, Japan.

Applied Entomology and Zoology 1981. 16 (3): 247-257 (31 ref., 1 fig.)

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Language: English

2/3/175 (Item 5 from file: 53)

1335171 OE070-01459

Mechanism of insecticide resistance in green rice leafhopper and small brown planthopper.

Hama, H.

National Institute of Agricultural Sciences, Yatabe, Tsukuba, Ibaraki 305, Japan.

Review of Plant Protection Research 1980. 13 54-73 (70 ref., 5 fig.)

Language: English

2/3/176 (Item 6 from file: 53)

1179545 OJ069-01606

Multiple factors for organophosphorus resistance in the housefly, *Musca domestica* L.

Motoyama, N.; Hayaoka, T.; Nomura, K.; Dauterman, W. C.

Laboratory of Environmental Biology, Faculty of Horticulture, Chiba University, Matsudo, Chiba 271, Japan.

Journal of Pesticide Science 1980. 5 (3): 393-402 (43 ref., 4 fig.)

Language: English Summary Language: Japanese

2/3/177 (Item 7 from file: 53)

1176638 OE069-02234

Studies on mechanism of resistance to insecticides in the green rice leafhopper, *Nephotettix cincticeps* Uhler, with particular reference to reduced sensitivity of acetylcholinesterase.

Hama, H.

Bulletin of the National Institute of Agricultural Sciences, C 1980. (No. 34): 75-138 (8 pp. ref., 37 fig.)

Language: Japanese Summary Language: English

2/3/178 (Item 8 from file: 53)

1015991 OE068-04393

Degradation, non-enzymatic degradation and biological effectiveness of aqueous preparation of some organophosphorus insecticides.

Proceedings of the Fourth Conference of Pest Control, September 30 - October 3, 1978. (Part I).

El-Tantawy, M. A.; Guirguis, M. W.; Hussein, N. M. (Tantawy, M. A. El-)

Faculty of Agriculture, Zagazig University, Egypt.

Cairo, Egypt; Academy of Scientific Research and Technology and National Research Centre.

1978. 546-554 (11 ref.)

Language: English

2/3/179 (Item 9 from file: 53)

0526283 OS039-00377

Possible relationships between structure and mechanism of degradation of organophosphorus insecticides in the soil environment.

Adamson, J.; Inch, T. D.

Chemical Defence Establishment, Porton Down, Salisbury, Wilts., SP4 0JQ, UK.

Proceedings, Seventh British Insecticide and Fungicide Conference, 1973, volume 1 1975. 65-72

Language: English Summary Language: French

2/3/180 (Item 10 from file: 53)

0202281 OE062-03570

The biochemical bases for the selectivity of organophosphorus insecticides.

Biochemiczne podstawy selektywnosci insektycydow fosforoorganicznych. Wegorek, W. (Editor): Papers presented at the 12th Scientific Session of the Institute for Plant Protection 3rd-5th February 1972.: Referaty wygloszone na XII Sesji Naukowej Instytutu Ochrony Roslin 3-5.II.1972 r.

Palut, D.; Bojanowska, A.

Biuletyn Instytutu Ochrony Roslin 1972. (No.52): 25-43 (27 ref., 4 fig.)

Language: Polish Summary Language: Russian; English

2/3/181 (Item 11 from file: 53)

0201924 OE062-01619

Factors influencing organophosphorus insecticide resistance in tobacco budworms.

Bull, D. L.; Whitten, C. J.

Entomology Research Division, ARS, USDA, College Station, Texas 77840, USA.

Journal of Agricultural and Food Chemistry 1972. 20 (3): 561-564 (34 ref.)

Language: English

2/3/182 (Item 12 from file: 53)

0153432 OS036-01811

Terminal residues of organophosphorus insecticides in soil and terminal residues of organophosphorus fumigants.

"Pesticide Terminal Residues", International Symposium. International Union of Pure and Applied Chemistry, Tel-Aviv, 1971, A.S. Tahori (editor).

Spencer, E. Y.

Research Institute, Canada Department of Agriculture, University Sub Post Office, London 72, Ontario.

London, UK, Butterworths.

1971. 3-8

Language: English

2/3/183 (Item 13 from file: 53)

0094129 OJ061-01104

Biochemistry and structure of organophosphorus pesticides.

Khan, M. A.; Haufe, W. O. (Editors): Toxicology, biodegradation and efficacy of livestock pesticides. Proceedings of an Advanced Study Institute on Toxicity of Pesticides used on Livestock sponsored by the North Atlantic Treaty Organization and organized by the Research Station, Canada Department of Agriculture, Lethbridge, Alberta.

Spencer, E. Y.

Research Institute, Canada Department of Agriculture, University Sub Post Office, London 72, Ontario.

Amsterdam, Netherlands, Swets & Zeitlinger.

1972. 23-42 (20 ref.)

Language: English

2/3/184 (Item 14 from file: 53)

0067466 OI040-00000; OV042-02075

Comparative inhibition of aliesterases and cholinesterase in rats fed eighteen organophosphorus insecticides.

Mei-Quey Su; Kinoshita, F. K.; Frawley, J. P.; DuBois, K. P.

Dep. Pharmacology, Univ. Chicago, Illinois 60637.

Toxicology and Applied Pharmacology 1971. 20 (No.2): 241-249

Language: English

2/3/185 (Item 1 from file: 50)

1349948 OE080-10619

Influence of host plants on the susceptibility of Myzus persicae (Sulz.) to certain insecticides.

Ambrose, H. J.; Regupathy, A.

Department of Agricultural Entomology, Centre for Plant Protection Studies, Tamil Nadu Agricultural University, Coimbatore 641 003, India.

Insect Science and its Application 1992. 13 (1): 79-86 (33 ref.)

Language: English Summary Language: French

2/3/186 (Item 2 from file: 50)

1239102 OE080-02536; OJ080-01725

A study on the distributions of paraoxonase activity and the factors

affecting paraoxonase activity of a rural population.

Song, J.; Park, H. B.

Department of Preventive Medicine, College of Medicine, Hanyang University, Korea Republic.

Korean Journal of Preventive Medicine 1990. 23 (2): 194-200 (15 ref.)

Language: Korean Summary Language: English

2/3/187 (Item 3 from file: 50)

1182872 OW040-03648; OE080-00127

Techniques for enhancing structural information from high-performance liquid chromatography/mass spectrometry.

Voyksner, R.; Pack, T.; Smith, C.; Swaisgood, H.; Chen, D.

Research Triangle Institute, P.O. Box 12194, Research Triangle Park, NC 27709, USA.

ACS Symposium Series 1990. (No. 420): 14-39 (20 ref.)

Language: English

2/3/188 (Item 4 from file: 50)

1163818 OE079-08410; OS055-02091

Metabolism of fenitrothion, parathion and cyanophos by isolated salithion-degrading bacteria from soil.

Itoh, K.

Environmental Health Science Laboratory, Sumitomo Chemical Co., Ltd., Takatsukasa, Takarazuka 665, Japan.

Journal of Pesticide Science 1991. 16 (1): 97-100 (24 ref.)

Language: English Summary Language: Japanese

2/3/189 (Item 5 from file: 50)

1157036 OE079-07280

Detoxification of organophosphate pesticides using an immobilized phosphotriesterase from Pseudomonas diminuta.

Caldwell, S. R.; Raushel, F. M.

Department of Biochemistry & Biophysics, Texas A&M University, College Station, TX 77843, USA.

Biotechnology and Bioengineering 1991. 37 (2): 103-109 (15 ref.)

Language: English

~~2/3/190~~ (Item 6 from file: 50)

~~11092590~~ 7L005-00688; OE079-05201

Enzymatic hydrolysis of toxic organofluorophosphate compounds.

Biotechnology and biodegradation [edited by Kamely, D.; Chakrabarty, A.; Omenn, G.S.].

Landis, W. G.; DeFrank, J. J.

U.S. Army Chemical Research Development and Engineering Center, Aberdeen Proving Ground, MD 21010-5423, USA.

Houston, TX, USA; Gulf Publishing Co.

~~110895~~ 183-201 (29 ref. Advances in Applied Biotechnology Series.

Volume 4)

Language: English

2/3/191 (Item 7 from file: 50)

1031739 OE078-10180; OJ079-02585

Degradation of pesticides, desiccation and defoliation, ACh-receptors as targets.

Bowers, W. S.; Ebing, W.; Fukuto, T. R.; Martin, D.; Wegler, R.; Yamamoto, I. (Editors)

Department of Entomology, College of Agriculture, University of Arizona, Tuscon, AZ 85721, USA.

Heidelberg, Germany; Springer-Verlag

1989. 256 pp. (many ref., In Chemistry of Plant Protection, No. 2)



Language: English

2/3/192 (Item 8 from file: 50)

0863288 OE077-05989

The induction and the mechanism of SN72129 resistance in the diamondback moth, *Plutella xylostella* (L.).

Cheng, Y. E.; Kao, C. H.; Lin, D. F.

Dep. Applied Zool. TARI, Wufeng, Taichung 41301, Taiwan.

Journal of Agricultural Research of China 1987. 36 (2): 228-236 (6 ref.)

Language: English Summary Language: Chinese

2/3/193 (Item 9 from file: 50)

0744817 OE076-06958; OC058-08732

Problems of control of insecticide-resistant *Plutella xylostella*.

Cheng, E. Y.

Dep. Applied Zool., Taiwan Agric. Res. Inst., Taiwan.

Pesticide Science 1988. 23 (2): 177-188 (46 ref.)

Language: English

2/3/194 (Item 1 from file: 357)

156129 DBA Accession No.: 93-14181

Purification of a nerve agent degrading enzyme from *Alteromonas undina* - organophosphorus-acid-anhydrolase purification for potential application in nerve gas degradation (conference abstract)

AUTHOR: Cheng T C; Harvey S; Stroup A

CORPORATE SOURCE: U.S. Army Chemical and Biological Defense Agency, Aberdeen Proving Ground, MD 21010, USA.

JOURNAL: Abstr.Gen.Meet.Am.Soc.Microbiol. (93 Meet.,) 1993 CODEN: 0005P

LANGUAGE: English

2/3/195 (Item 2 from file: 357)

155673 DBA Accession No.: 93-13725

Stereoselectivity of soman detoxification by

organophosphorus-acid-anhydrolases from *Escherichia coli* -

anticholinesterase degradation using diisopropyl-fluorophosphatase

AUTHOR: Hoskin F C G; Gallo B J; Steeves D M; Walker J E

CORPORATE SOURCE: Biology Department, Illinois Institute of Technology, Chicago, IL 60616, USA.

JOURNAL: Chem.Biol.Interact. (87, 1-3, 269-78) 1993 CODEN: CBINA8

LANGUAGE: English

2/3/196 (Item 3 from file: 357)

155671 DBA Accession No.: 93-13723

Characterization of organophosphorus-hydrolases and the genetic manipulation of the phosphotriesterase from *Pseudomonas diminuta* - use of organophosphorus-hydrolase e.g. phosphotriesterase for anticholinesterase degradation and insecticide pesticide degradation for potential use in bioremediation

AUTHOR: Dave K I; Miller C E; +Wild J R

CORPORATE SOURCE: Department of Biochemistry and Biophysics, Texas A&M University, College Station, TX 77843-2128, USA.

JOURNAL: Chem.Biol.Interact. (87, 1-3, 55-68) 1993 CODEN: CBINA8

LANGUAGE: English

2/3/197 (Item 4 from file: 357)

150366 DBA Accession No.: 93-08418

Biochemical demilitarization of chemical warfare agents - nerve gas degradation and mustard gas degradation (conference abstract)

AUTHOR: DeFrank J J; Harvey S P

CORPORATE SOURCE: U.S. Army Chemical Research, Development and Engineering  
Center, Aberdeen Proving Ground, Maryland 21010-5423, USA.  
JOURNAL: J.Cell.Biochem. (Suppl.17C, 187) 1993 CODEN: JCEBD5  
LANGUAGE: English

2/3/198 (Item 5 from file: 357)  
148597 DBA Accession No.: 93-06649  
Biodegradation of pesticides with reversed micelles - organophosphorous  
pesticide degradation by phosphotriesterase in reversed micelle; new  
reactor design (conference abstract)  
AUTHOR: Komives C; Russell A J  
CORPORATE SOURCE: University of Pittsburgh, Pittsburgh, PA 15261, USA.  
JOURNAL: Abstr.Pap.Am.Chem.Soc. (205 Meet., Pt.1, BIOT87) 1993 CODEN:  
ACSRAL  
LANGUAGE: English

2/3/199 (Item 6 from file: 357)  
144326 DBA Accession No.: 93-02378  
Towards catalytic antibodies for the degradation of toxic agents -  
catalytic antibody construction for potential bioremediation or  
organophosphorus intoxication prevention or therapy; review (conference  
paper)  
AUTHOR: Green B S; Glikson M  
CORPORATE SOURCE: The Hebrew University, Faculty of Medicine, School of  
Pharmacy, Department of Pharmaceutical Chemistry, P.O. Box 12065,  
Jerusalem 91120, Israel.  
JOURNAL: Biotechnol.Bridging Res.Appl. (249-64) 1991 CODEN: 9999X  
LANGUAGE: English

2/3/200 (Item 7 from file: 357)  
141637 DBA Accession No.: 92-14129  
Organophosphorus cholinesterase-inhibitors: detoxification by microbial  
enzymes - anticholinesterase insecticide pesticide degradation using  
organophosphorus-anhydrase, e.g. parathion-hydrolase (conference paper)  
AUTHOR: DeFrank J J  
CORPORATE SOURCE: Biotechnology Division, U.S. Army Chemical Research,  
Development & Engineering Center, Aberdeen Proving Ground, Maryland  
21010-5423, USA.  
JOURNAL: Appl.Enzyme Biotechnol. (165-80) 1991 CODEN: 9999Y  
LANGUAGE: English

2/3/201 (Item 8 from file: 357)  
129274 DBA Accession No.: 92-01766 PATENT  
Polymeric hydrogel with covalently immobilized cholinesterase - has  
increased resistance to action of organophosphoric substance  
PATENT ASSIGNEE: Moscow-State-Univ.; Inst.Petrochem.Synth. 1991  
PATENT NUMBER: SU 1634672 PATENT DATE: 910315 WPI ACCESSION NO.:  
91-345295 (9147)  
PRIORITY APPLIC. NO.: SU 3663300 APPLIC. DATE: 890317  
NATIONAL APPLIC. NO.: SU 3663300 APPLIC. DATE: 890317  
LANGUAGE: Russian

2/3/202 (Item 9 from file: 357)  
110012 DBA Accession No.: 90-12703  
OPA-anhydrase synthesis by the protozoon Tetrahymena thermophila - soman  
degradation and DFP degradation (conference abstract)  
AUTHOR: Gallo B; Walker J; Hoskin F C G  
CORPORATE SOURCE: The U.S. Army Natick Research, Development and  
Engineering Center, Natick, MA, USA.  
JOURNAL: Abstr.Annu.Meet.Am.Soc.Microbiol. (90 Meet., 274) 1990 CODEN:

0005M  
LANGUAGE: English

2/3/203 (Item 10 from file: 357)  
104278 DBA Accession No.: 90-06969 PATENT  
~~Production of parathion-hydrolase - DNA sequence; gene cloning and,~~  
expression in e.g. Escherichia coli; purification without surfactant;  
application in anticholinesterase e.g. DFP, Sarin or Soman pesticide  
degradation  
PATENT ASSIGNEE: Amgen 1990  
PATENT NUMBER: WO 9002177 PATENT DATE: 900308 WPI ACCESSION NO.:  
90-099401 (9013)  
~~PRIORITY APPLIC. NO.: US 312503 APPLIC. DATE: 890217~~  
~~NATIONAL APPLIC. NO.: WO 89US3721 APPLIC. DATE: 890825~~  
LANGUAGE: English

2/3/204 (Item 11 from file: 357)  
091000 DBA Accession No.: 89-08991  
Structure-activity relationships in the hydrolysis of substrates by the  
phosphotriesterase from Pseudomonas diminuta - application in paraoxon,  
parathion, insecticide degradation; waste-disposal  
AUTHOR: Donarski W J; Dumas D P; Heitmeyer D P; Lewis V E; +Raushel F M  
CORPORATE SOURCE: Department of Chemistry, Texas A+M University, College  
Station, Texas 77843, USA.  
JOURNAL: Biochemistry (28, 11, 4650-55) 1989 CODEN: BICHAW  
LANGUAGE: English

2/3/205 (Item 12 from file: 357)  
090670 DBA Accession No.: 89-08661  
Manipulation of enzyme systems in the biodegradation of hazardous waste  
site chemicals - waste-disposal (conference abstract)  
AUTHOR: Wild J R  
CORPORATE SOURCE: Department of Biochemistry and Biophysics, Texas A&M  
University System, College Station, Texas 77843-2128, USA.  
JOURNAL: Abstr.Pap.Am.Chem.Soc. (197 Meet., MBTD29) 1989 CODEN: ACSRAL  
LANGUAGE: English

2/3/206 (Item 13 from file: 357)  
080449 DBA Accession No.: 88-11298  
The molecular biology of the plasmid-borne opd gene - organophosphorus  
detoxification gene located in plasmid of Pseudomonas diminuta,  
Flavobacterium (conference abstract)  
AUTHOR: McDaniel C S; Harper L L; LeBlanc S T; Miller C E; Wild J R  
CORPORATE SOURCE: Department of Biochemistry and Biophysics, Texas A and M  
University, College Station, Texas 77843, USA.  
JOURNAL: Abstr.Annu.Meet.Am.Soc.Microbiol. (88 Meet., 301) 1988 CODEN:  
0005M  
LANGUAGE: English

2/3/207 (Item 14 from file: 357)  
076189 DBA Accession No.: 88-07038  
Cloning and sequencing of a plasmid-borne gene (opd) encoding a  
phosphotriesterase - potential organophosphorus pesticide degradation  
AUTHOR: McDaniel C S; Harper L L; +Wild J R  
CORPORATE SOURCE: Department of Biochemistry and Biophysics, Texas A & M  
University, College Station, Texas 77843, USA.  
JOURNAL: J.Bacteriol. (170, 5, 2306-11) 1988 CODEN: JOBAAY  
LANGUAGE: English

2/3/208 (Item 1 from file: 161)

0167055 NIOSH-00199004

A Microassay Method for Neurotoxic Esterase Determinations

Correll, L., and M. Ehrich

Fundamental and Applied Toxicology, Vol. 16, No. 1, pages 110-116, 20 references January 1991 CODEN: FAATDF

2/3/209 (Item 2 from file: 161)

0124524 NIOSH-00163867

Acute Effects of Soman, Sarin, and Tabun on Cyclic Nucleotide Metabolism in Rat Striatum

Liu, D-D., H. K. Watanabe, I. K. Ho, and B. Hoskins

Journal of Toxicology and Environmental Health, Vol. 19, No. 1, pages 23-32, 34 references September 1986 CODEN: JTEHD6

2/3/210 (Item 3 from file: 161)

0123093 NIOSH-00160690

Metabolism Of Insecticides In Plants And Animals

Fukuto, T. R., and R. L. Metcalf

Annals of the New York Academy of Sciences, Vol. 160, No. 1, pages 97-111, 80 references June 23, 1969

2/3/211 (Item 4 from file: 161)

0121803 NIOSH-00152899

Studies On L-Ascorbic Acid Metabolism In Rats Under Chronic Toxicity Due To Organophosphorus Insecticides: Effects Of Supplementation Of L-Ascorbic Acid In High Doses

Chakraborty, D., A. Bhattacharyya, K. Majumdar, K. Chatterjee, S. Chatterjee, A. Sen, and G. C. Chatterjee

Journal of Nutrition, Vol. 108, No. 6, pages 973-980, 25 references October 26, 1977

2/3/212 (Item 5 from file: 161)

0117071 NIOSH-00155310

The Metabolism Of Insecticides In Man

Hutson, D. H.

Progress in Pesticide Biochemistry, Vol. 1, pages 287-333, 151 references 1981

2/3/213 (Item 6 from file: 161)

0111841 NIOSH-00151071

Recognition And Overview Of The Organophosphorus Induced Delayed Neurotoxicity Problem

Casida, J. E., and R. L. Baron

Pesticide Induced Delayed Neurotoxicity, Proceedings of a Conference Held in Washington, D.C., on February 19-20, 1976, NTIS PB-256-416, pages 7-23, 17 references February 19, 1976

REPORT NO.: PB-256-416

2/3/214 (Item 7 from file: 161)

0082864 NIOSH-00122213

Factors Modifying the Toxicity of Organophosphorus Compounds Including Soman and Sarin

Fonnum, F., and S. H. Sterri

Fundamental and Applied Toxicology, Vol. 1, No. 2, pages 143-147, 9 references April 1981

2/3/215 (Item 8 from file: 161)

0042303 NIOSH-00046947

Chemical and Biochemical Methology for the Assessment of Hazards of Pesticides for Man

Anonymous  
World Health Organization Technical Report Series, No. 560, 26 pages, 48 references 1975

2/3/216 (Item 9 from file: 161)  
0037894 NIOSH-00037728  
Chemistry and Mode of Action of Organophosphorus Insecticides  
Spencer, E. Y., and R. D. O'Brien  
Annual Review of Entomology, Vol. 2, Nos. 3-11, pages 261-278, 104 references 1957

2/3/217 (Item 10 from file: 161)  
0036686 NIOSH-00045456  
Insecticide Biochemistry  
Casida, J. E.  
Annual Review of Biochemistry, Vol. 42, pages 259-278, 138 references 1973

2/3/218 (Item 11 from file: 161)  
0010844 NIOSH-00006565  
Synergistic and Antagonistic Actions of Insecticide-Synergist Combinations and Their Mode of Action  
Sun, Y. P., and E. R. Johnson  
Agricultural and Food Chemistry, Vol. 8, No. 4, pages 261-266, 12 references August 1960

2/3/219 (Item 1 from file: 434)  
11636387 Genuine Article#: HZ170 No. References: 34  
Title: SOLID-STATE P-31 MAS NMR-STUDY OF THE DISTRIBUTION AND REACTION OF ORGANOPHOSPHORUS ESTERS ADSORBED ON SYNTHETIC RESIN CATALYSTS  
Author(s): BEAUDRY WT; WAGNER GW; WARD JR  
Corporate Source: USA,CTR CHEM RES DEV & ENGN,RES DIRECTORATE/ABERDEEN PROVING GROUND//MD/21010  
Journal: JOURNAL OF MOLECULAR CATALYSIS, 1992, V73, N1 (APR), P77-90  
Language: ENGLISH Document Type: ARTICLE (Abstract Available)

2/3/220 (Item 2 from file: 434)  
11192381 Genuine Article#: GP671 No. References: 22  
Title: ORGANOPHOSPHATES BIODEGRADATION IN ANAEROBIC MEDIA BY IMMOBILIZED ENZYMATIC-ACTIVITY  
Author(s): HADDANE M; RAMBAUD A; COLETTIPREVIERO MA  
Corporate Source: INSERM,U58,RUE NAVACELLES/F-34100 MONTPELLIER//FRANCE//; INSERM,U58,RUE NAVACELLES/F-34100 MONTPELLIER//FRANCE//; FAC PHARM MONTPELLIER,DEPT SCI ENVIRONNEMENT & SANTE PUBL/F-34060 MONTPELLIER//FRANCE/  
Journal: ENVIRONMENTAL TECHNOLOGY, 1991, V12, N10, P887-896  
Language: ENGLISH Document Type: ARTICLE (Abstract Available)

2/3/221 (Item 3 from file: 434)  
11049938 Genuine Article#: GC353 No. References: 25  
Title: MODE OF ACTION OF SALIGENIN CYCLIC PHOSPHATES ON ORGANOPHOSPHATE-RESISTANT HOUSEFLIES  
Author(s): SHIOTSUKI T  
Corporate Source: KYUSHU UNIV,DEPT AGR CHEM,HIGASHI KU/FUKUOKA 812//JAPAN/  
Journal: JOURNAL OF PESTICIDE SCIENCE, 1991, V16, N3, P523-531  
Language: JAPANESE Document Type: ARTICLE (Abstract Available)

2/3/222 (Item 1 from file: 6)  
1455496 NTIS Accession Number: AD-A218 848/0/XAB  
Genetic and Biochemical Characterization and Manipulation of

Plasmid-borne, Broad-spectrum Organophosphate Hydrolases from Soil Bacteria  
(Final rept. 18 Dec 86-18 Dec 89)

Wild, J. R.

Texas A and M Research Foundation, College Station.

Corp. Source Codes: 015059000; 347320

Sponsor: Army Research Office, Research Triangle Park, NC.

Report No.: ARO-24002.4-LS

Feb 90 5p

Languages: English

Journal Announcement: GRAI9013

NTIS Prices: PC A01/MF A01

2/3/223 (Item 1 from file: 10)

91121809 93054120 Holding Library: AGL

p-Nitrophenylacetate hydrolysis by honey bee esterases: kinetics and inhibition

Spoonamore, J.E.; Frohlich, D.R.; Wells, M.A.

Xenobiotica. Mar 1993. v. 23 (3) p. 279-284.

London : Taylor & Francis. ISSN: 0049-8254 CODEN: XENOB

DNAL CALL NO: QD415.A1X4

Language: English

2/3/224 (Item 2 from file: 10)

91058298 93003966 Holding Library: AGL

Detection and biochemical characterization of insecticide resistance in the diamondback moth

Yu, S.J.; Nguyen, S.N.

University of Florida, Gainesville, FL

Pesticide biochemistry and physiology. Sept 1992. v. 44 (1) p. 74-81.

Orlando, Fla. : Academic Press. ISSN: 0048-3575 CODEN: PCBPB

DNAL CALL NO: SB951.P49

Language: English

2/3/225 (Item 3 from file: 10)

91053231 93000875 Holding Library: AGL

Activities of phosphomonoesterase and phosphodiesterase from Lumbricus terrestris

Park, S.C.; Smith, T.J.; Bisesi, M.S.

Indiana State University, Terre Haute, IN

Soil biology and biochemistry. Sept 1992. v. 24 (9) p. 873-876.

Exeter : Pergamon Press. ISSN: 0038-0717 CODEN: SBIOAH

DNAL CALL NO: S592.7.A1S6

Language: English

2/3/226 (Item 4 from file: 10)

91040459 92070222 Holding Library: AGL

Herbicide-insecticide interaction in maize: malathion inhibits cytochrome P450-dependent primisulfuron metabolism

Kreuz, K.; Fonne-Pfister, R.

CIBA-GEIGY Limited, Basle, Switzerland

Pesticide biochemistry and physiology. July 1992. v. 43 (3) p. 232-240.

Orlando, Fla. : Academic Press. ISSN: 0048-3575 CODEN: PCBPB

DNAL CALL NO: SB951.P49

Language: English

2/3/227 (Item 5 from file: 10)

91040458 92070221 Holding Library: AGL

Significance of carboxylesterases and insensitive acetylcholinesterase in conferring organophosphate resistance in Lygus hesperus populations

Zhu, K.Y.; Brindley, W.A.

University of Massachusetts, Amherst, MA  
Pesticide biochemistry and physiology. July 1992. v. 43 (3) p. 223-231.  
Orlando, Fla. : Academic Press. ISSN: 0048-3575 CODEN: PCBPB  
DNAL CALL NO: SB951.P49  
Language: English

2/3/228 (Item 6 from file: 10)  
90018271 91011170 Holding Library: AGL  
Insecticide resistance in the fall armyworm, *Spodoptera frugiperda* (J.E. Smith)  
Yu, S.J.;  
University of Florida, Gainesville, FL  
Pesticide biochemistry and physiology. Jan 1991. v. 39 (1) p. 84-91.  
Duluth, Minn. : Academic Press. ISSN: 0048-3575 CODEN: PCBPB  
DNAL CALL NO: SB951.P49  
Language: English

2/3/229 (Item 7 from file: 10)  
84056431 83098389 Holding Library: AGL  
Montmorillonite--catalyzed hydrolysis of phosmet (Organophosphorus pesticides, degradation)  
Sanchez Camazano, M. SOSCA; Sanchez Martin, M.J.  
Soil science. v. 136 (2) , Aug 1983. p. 89-93. ill.  
Baltimore : , Williams & Wilkins. ISSN: 0038-075X  
NAL: 56.8 SO3  
Language: English

2/3/230 (Item 1 from file: 399)  
118083339 CA: 118(10)83339w PATENT  
Enzyme detergent formulation and methods of detoxifying toxic organophosphorus acid compounds *Wrong enzyme.*  
INVENTOR(AUTHOR): Akkara, Joseph A.; Kaplan, David L.; Kaplan, Arthur M.  
LOCATION: USA  
ASSIGNEE: United States Dept. of the Army  
PATENT: United States ; US 5169554 A DATE: 921208  
APPLICATION: US 417614 (891004)  
PAGES: 10 pp. CODEN: USXXAM LANGUAGE: English CLASS: 252174120;  
C11D-017/00A; C11D-007/06B; C11D-007/12B

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2/3/231 (Item 2 from file: 399)  
111219332 CA: 111(24)219332d PATENT  
Enzymes and receptors on membranes for the inactivation of toxic materials  
INVENTOR(AUTHOR): Taylor, Richard F.  
LOCATION: USA  
ASSIGNEE: Little, Arthur D., Inc.  
PATENT: PCT International ; WO 8902920 A1 DATE: 890406  
APPLICATION: WO 88US3422 (881004) \*US 105312 (871005)  
PAGES: 57 pp. CODEN: PIXXD2 LANGUAGE: English CLASS: C12N-011/18A;  
A61L-015/00B DESIGNATED COUNTRIES: JP DESIGNATED REGIONAL: AT; BE; CH; DE  
; FR; GB; IT; LU; NL; SE

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2/3/232 (Item 3 from file: 399)  
109149639 CA: 109(17)149639s JOURNAL  
Photocatalytic degradation of organophosphorus compounds in semiconductor suspension

AUTHOR(S): Harada, K.; Hisanaga, T.; Tanaka, K.  
LOCATION: Natl. Chem. Lab. Ind., Yatabe, Japan,  
JOURNAL: New J. Chem. DATE: 1987 VOLUME: 11 NUMBER: 8-9 PAGES:  
597-600 CODEN: NJCHE5 LANGUAGE: English

Copyright 1993 by the American Chemical Society

2/3/233 (Item 4 from file: 399)  
108137493 CA: 108(16)137493f JOURNAL  
Degradation of organophosphoric acid triesters by the bacteria in the  
river water (II). Properties of TBP (tributyl phosphate) degrading  
bacteria and their enzymes  
AUTHOR(S): Kawai, Shin'ichiro; Fukushima, Minoru; Kitano, Masaaki;  
Nishio, Takayuki; Morishita, Hideki  
LOCATION: Osaka City Inst. Public Health and Environ. Sci., Osaka, Japan,  
543  
JOURNAL: Annu. Rep. Osaka City Inst. Public Health Environ. Sci. DATE:  
1986 VOLUME: 49, PAGES: 160-6 CODEN: AOISDR ISSN: 0285-5801 LANGUAGE:  
English

Copyright 1993 by the American Chemical Society

2/3/234 (Item 5 from file: 399)  
98123097 CA: 98(15)123097t JOURNAL  
Detoxification enzyme differences between a herbivorous and predatory  
mite  
AUTHOR(S): Mullin, C. A.; Croft, B. A.; Strickler, K.; Matsumura, F.;  
Miller, J. R.  
LOCATION: Pesticide Res. Cent., Michigan State Univ., East Lansing, MI,  
48824, USA  
JOURNAL: Science (Washington, D. C., 1883-) DATE: 1982 VOLUME: 217  
NUMBER: 4566 PAGES: 1270-2 CODEN: SCIEAS ISSN: 0036-8075 LANGUAGE:  
English

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2/3/235 (Item 1 from file: 35)  
01212575 ORDER NO: AAD92-05040  
BEHAVIOR, FATE AND INTERACTION OF ATRAZINE AND TERBUFOS IN SOILS  
Author: CARAZO, ELIZABETH  
Degree: PH.D.  
Year: 1991  
Corporate Source/Institution: UNIVERSITY OF MARYLAND (0117)  
Source: VOLUME 52/11-B OF DISSERTATION ABSTRACTS INTERNATIONAL.  
PAGE 5636. 172 PAGES

2/3/236 (Item 2 from file: 35)  
01173379 ORDER NO: AADDX-92871  
THE METABOLISM OF CARBOFURAN IN ACTIVE SOILS AND ITS RESPONSE TO ENZYME  
INHIBITORS  
Author: TALEBI, KHALIL  
Degree: PH.D.  
Year: 1989  
Corporate Source/Institution: UNIVERSITY OF READING (UNITED KINGDOM) (  
0354)  
Source: VOLUME 52/04-B OF DISSERTATION ABSTRACTS INTERNATIONAL.  
PAGE 1789. 247 PAGES

2/3/237 (Item 3 from file: 35)  
01135258 ORDER NO: AAD90-34716



ORGANOPHOSPHORUS TOXICITY: FURTHER STUDIES ON THE CENTRAL NEUROTOXICITY OF SOMAN IN THE RAT

Author: JIMMERSON, VERNON ROBERT

Degree: PH.D.

Year: 1990

Corporate Source/Institution: THE UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL (0153)

Source: VOLUME 51/07-B OF DISSERTATION ABSTRACTS INTERNATIONAL.  
PAGE 3264. 172 PAGES

2/3/238 (Item 4 from file: 35)

1084874 ORDER NO: AAD90-02620

PURIFICATION, CHARACTERIZATION, AND KINETIC STUDIES OF A WILD- AND AN INSECTICIDE-INSENSITIVE ACETYLCHOLINESTERASE FROM MOSQUITO (CULEX SPP.)

Author: DARY, OMAR

Degree: PH.D.

Year: 1989

Corporate Source/Institution: UNIVERSITY OF CALIFORNIA, RIVERSIDE (0032)

Source: VOLUME 50/08-B OF DISSERTATION ABSTRACTS INTERNATIONAL.  
PAGE 3447. 331 PAGES

2/3/239 (Item 5 from file: 35)

0996581 ORDER NO: NOT AVAILABLE FROM UNIVERSITY MICROFILMS INT'L.

KINETIC STUDIES ON THE PREFORMULATION AND FORMULATION OF PARENTERAL SOLUTIONS (OXIMES, ANTIDOTES, OXIDATION)

Author: FYHR, PETER JAN

Degree: FARM

Year: 1987

Corporate Source/Institution: UPPSALA UNIVERSITET (SWEDEN) (0903)

Source: VOLUME 49/01-C OF DISSERTATION ABSTRACTS INTERNATIONAL.  
PAGE 108. 44 PAGES

ISBN: 91-554-2062-1

Publisher: ALMQVIST & WIKSELL INTERNATIONAL, STOCKHOLM, SWEDEN

2/3/240 (Item 6 from file: 35)

0984097 ORDER NO: AAD88-03898

INHERITANCE AND MECHANISMS OF PERMETHRIN RESISTANCE IN THE TOBACCO BUDWORM, HELIOTHIS VIRESCENS (LEPIDOPTERA: NOCTUIDAE)

Author: PAYNE, GREGORY TERRELL

Degree: PH.D

Year: 1987

Corporate Source/Institution: CLEMSON UNIVERSITY (0050)

Source: VOLUME 49/01-B OF DISSERTATION ABSTRACTS INTERNATIONAL.  
PAGE 0034. 120 PAGES

2/3/241 (Item 7 from file: 35)

868563 ORDER NO: AAD84-29028

STUDIES ON THE IN VITRO METABOLISM OF MALATHION HOMOLOGS BY RABBIT LIVER CARBOXYLESTERASES AND THE INHIBITION OF CARBOXYLESTERASES BY ORGANOPHOSPHORUS IMPURITIES FOUND IN TECHNICAL MALATHION (CARBOXYLESTERASE, MALATHION, IMPURITIES)

Author: LIN, PAUL TZONGPAI

Degree: PH.D.

Year: 1984

Corporate Source/Institution: NORTH CAROLINA STATE UNIVERSITY AT RALEIGH (0155)

Source: VOLUME 45/10-B OF DISSERTATION ABSTRACTS INTERNATIONAL.  
PAGE 3197. 88 PAGES

2/3/242 (Item 8 from file: 35)

844826 ORDER NO: AAD84-12112

PARAOXONASE AND PARAOXON DETOXIFICATION (PHARMACOKINETICS)

Author: BUTLER, EDWARD GRANT

Degree: PH.D.

Year: 1984

Corporate Source/Institution: THE UNIVERSITY OF MICHIGAN (0127)

Source: VOLUME 45/02-B OF DISSERTATION ABSTRACTS INTERNATIONAL.  
PAGE 522. 111 PAGES

2/3/243 (Item 9 from file: 35)

804742 ORDER NO: AAD83-05544

DETERMINATION OF ORGANOPHOSPHORUS COMPOUNDS BY HPLC WITH POST-COLUMN  
PHOTOCHEMICAL DEGRADATION FOLLOWED BY THE FORMATION OF REDUCED  
HETEROPOLYMOLYBDATE

Author: PRIEBE, STEPHEN ROY

Degree: PH.D.

Year: 1982

Corporate Source/Institution: WESTERN MICHIGAN UNIVERSITY (0257)

Source: VOLUME 43/10-B OF DISSERTATION ABSTRACTS INTERNATIONAL.  
PAGE 3230. 114 PAGES

2/3/244 (Item 1 from file: 41)

055231 78-04420

Fixation et activites intracellulaires des polluants. (Intracellular  
fixation and activity of pollutants).

Gastaud, J. M.

Centre Scientifique, Fondation du Prince Rainier, Monaco.

7e colloque international d'oceanographie medicale Nice, Fr. Oct.  
3-7, 1977

Actes du 7e colloque international d'oceanographie medicale. (Proceedings  
of the seventh international medical oceanography colloquium). Edited by M.  
Aubert and M. Gauthier. In REVUE INTERNATIONALE OCEANOGRAPHIE MEDICALE  
49(3), 5-11, Publ.Yr: 1978 Coden: RVOMAY  
illus. refs.  
abs.

2/3/245 (Item 1 from file: 40)

00108757 ENVIROLINE NUMBER: 82-01535

Persistence of Organophosphorus Insecticides in Sewage Sludges

McIntyre, A.E., Imperial College, London; Lester, J.N.; Perry, R.

JOURNAL: Env Technology Letters v2, p111(8)

PUBLICATION DATE: 1981

2/3/246 (Item 1 from file: 44)

0091433 111-14417

Metabolism of organophosphorus insecticides in aquatic organisms, with  
special emphasis on fenitrothion. Presented at: 176. Meet. American  
Chemical Society, Pesticide Chemistry Division Miami Beach, FL (USA) 11 Sep  
1978.}

Miyamoto, J.; Takimoto, Y.; Mihara, K.

Sumitomo Chemical Co. Ltd., Res. Dep., Hyogo 665, Japan

, (no. 99)

ACS Symp. Ser.

In:} Pesticide and xenobiotic metabolism in aquatic organisms. Based on a  
symposium sponsored by the Division of Pesticide Chemistry at the 176  
Meeting of the American Chemical Society, Miami Beach, Florida, September  
11-17, 1978.

CONFERENCE LOCATION: Miami Beach, FL (USA) CONFERENCE YEAR: 1978

Khan, M.A.Q.; Lech, J.J.; Menn, J.J. eds.).

, } American Chemical Society Washington, DC (USA)., 1979.

2/3/247 (Item 1 from file: 70)  
00603230 SEDBASE No.: 00145700 Line Count: 89  
Number of Cited Reference: 15  
Drug Name: LAUDANOSINE

Drug Classification: 13.02  
Effect Interaction Name: CONVULSION (ANIMAL STUDY)  
Effect Classification Code: 14.02  
Synonym(s) for Effect Name: MUSCLE SPASM  
Side Effects of Drugs Annual-10,109  
Meyler's Side Effect of Drugs SED text, 13.02.80

2/3/248 (Item 2 from file: 70)  
00603229 SEDBASE No.: 00145683 Line Count: 89  
Number of Cited Reference: 15  
Drug Name: LAUDANOSINE

Drug Classification: 13.02  
Effect Interaction Name: CENTRAL NERVOUS SYSTEM STIMULATION  
Effect Classification Code: 14.02  
Synonym(s) for Effect Name: NEUROTOXICITY  
Side Effects of Drugs Annual-10,109  
Meyler's Side Effect of Drugs SED text, 13.02.80

2/3/249 (Item 3 from file: 70)  
00603228 SEDBASE No.: 00145666 Line Count: 37  
Number of Cited Reference: 15  
Drug Name: QUATERNARY MONO ACRYLATE

Drug Classification: 13.02  
Effect Interaction Name: DRUG TOXICITY  
Effect Classification Code: 19.01.19  
Meyler's Side Effect of Drugs SED text, 13.02.80

2/3/250 (Item 4 from file: 70)  
00603226 SEDBASE No.: 00145646 Line Count: 98  
Number of Cited Reference: 15  
Drug Name: LAUDANOSINE

Drug Classification: 13.02  
Effect Interaction Name: DRUG ACCUMULATION  
Effect Classification Code: 19.06

FACTORS OF INFLUENCE: PROLONGED INFUSION; REPEATED DOSING; LIVER DISEASE;  
KIDNEY FAILURE  
Side Effects of Drugs Annual-10,109; Side Effects of Drugs Annual-9,110  
Meyler's Side Effect of Drugs SED text, 13.02.80

2/3/251 (Item 5 from file: 70)  
00603095 SEDBASE No.: 00145034 Line Count: 98  
Number of Cited Reference: 15  
Drug Name: ATRACURIUM BESILATE

Drug Classification: 13.02  
Effect Interaction Name: DRUG ACCUMULATION  
Effect Classification Code: 19.06

FACTORS OF INFLUENCE: PROLONGED INFUSION; REPEATED DOSING; LIVER DISEASE;  
KIDNEY FAILURE

Side Effects of Drugs Annual-10,109; Side Effects of Drugs Annual-9,110  
Meyler's Side Effect of Drugs SED text, 13.02.80

2/3/252 (Item 6 from file: 70)  
00603094 SEDBASE No.: 00145016 Line Count: 101  
Number of Cited Reference: 15  
Drug Name: LAUDANOSINE

Drug Classification: 13.02  
Interacting Drug Name: HALOTHANE  
Interacting Drug Classification Code: 11.01.02  
Effect Interaction Name: MAXIMUM ALLOWABLE CONCENTRATION INCREASE (ANIMAL STUDY)  
Effect Classification Code: 19.06  
Synonym(s) for Effect Name: DRUG TOLERANCE  
Side Effects of Drugs Annual-10,109; Side Effects of Drugs Annual-9,110  
Meyler's Side Effect of Drugs SED text, 13.02.80

2/3/253 (Item 1 from file: 8)  
03417622 E.I. Monthly No: EIM9204-020653  
Title: Mechanism of selective toxicity of diazinon to killifish (*Oryzias latipes*) and loach (*Misgurnus anguillicaudatus*).  
Author: Oh, Hye Sun; Lee, Sung Kyu; Kim, Young-Hwa; Roh, Jung Koo  
Corporate Source: Korea Research Inst of Chemical Technology, Dae Jeon, Korea  
Conference Title: 14th Symposium on Aquatic Toxicology and Risk Assessment  
Conference Location: San Francisco, CA, USA Conference Date: 1990 Apr 22-24  
E.I. Conference No.: 16033  
Source: ASTM Special Technical Publication n 1124. Publ by ASTM, Philadelphia, PA, USA. p 343-353  
Publication Year: 1991  
CODEN: ASTTA8 ISSN: 0066-0558 ISBN: 0-8031-1425-7  
Language: English

2/3/254 (Item 2 from file: 8)  
02991710 E.I. Monthly No: EI9012145485  
Title: Decomposition of organophosphorus compounds on photoactivated TiO<sub>2</sub> surfaces.  
Author: Gratzel, Carole K.; Jirousek, Marie; Gratzel, Michael  
Corporate Source: Ecole Polytechnique Federale de Lausanne, Lausanne, Switz  
Source: Journal of Molecular Catalysis v 60 n 3 Jul 1 1990 p 375-387  
Publication Year: 1990  
CODEN: JMCADS ISSN: 0304-5102  
Language: English

2/3/255 (Item 3 from file: 8)  
02950669 E.I. Monthly No: EI9009104008  
Title: Mechanism of flame-retardant action of tris(2,3-dichloropropyl) phosphate on epoxy resin.  
Author: Li, Jianzong; Chen, Shiyuan; Xu, Xiaoming  
Corporate Source: Hubei Univ, Wuhan, China  
Source: Journal of Applied Polymer Science v 40 n 3-4 Aug 5-Aug 20 1990 p 417-426  
Publication Year: 1990  
CODEN: JAPNAB ISSN: 0021-8995  
Language: English

2/3/256 (Item 4 from file: 8)  
00977629 E.I. Monthly No: EI8101006246 E.I. Yearly No: EI81069577  
Title: INHIBITION OF SHEEP LIVER ARGINASE BY MALATHION.  
Author: Mohananchari, V.; Neeraja, P.; Indira, K.; Swami, K. S.  
Corporate Source: Sri Venkateswara Univ, Tirupati, India  
Source: Bulletin of Environmental Contamination and Toxicology v 24 n 6  
Jun 1980 p 875-878  
Publication Year: 1980  
CODEN: BECTA6 ISSN: 0007-4861  
Language: ENGLISH

2/3/257 (Item 5 from file: 8)  
00236311 E.I. Monthly No: EI72X040338  
Title: Enzymatic detoxification of the organophosphorus insecticide phosdrin.  
Author: CORNETTE, J. C.; AGERTON, B. M.; WOLVERTON, B. C.  
Source: Am Chem Soc, Div Water, Air and Waste Chem, Prepr v 11 n 2 for meeting Washington, DC, Sept 12-17 1971 p 95  
Publication Year: 1971  
Language: ENGLISH

2/3/258 (Item 1 from file: 103)  
03109953 EDB-91-047386  
Title: Detoxification of organophosphorus pesticide solutions with an immobilized enzyme system  
Author(s): Havens, P.L.; Rase, H.F. (Univ. of Texas, Austin (USA))  
Title: Emerging technologies for hazardous waste treatment  
Conference Title: American Chemical Society (ACS) symposium on emerging technologies for hazardous waste treatment  
Conference Location: Atlantic City, NJ (USA) Conference Date: 4-7 Jun 1990  
Publisher: Washington, DC (US) American Chemical Society  
Publication Date: 1990 p 14 (26 p)  
Report Number(s): CONF-9006139--  
Language: In English

2/3/259 (Item 2 from file: 103)  
00828802 AIX-12-631799; ERA-07-002247; EDB-82-003638  
Title: Investigation of pesticide degradation in surface waters  
Author(s): Horvath, L. (Magyar Tudomanyos Akademia Izotop Intezete, Budapest)  
Title: Proceedings of the second Hungarian symposium on radiochemistry held at Kossuth Lajos University, Debrecen, Nov 3-5, 1980  
Conference Title: 2. Hungarian symposium on radiochemistry  
Conference Location: Debrecen, Hungary Conference Date: 3 Nov 1980  
Publication Date: 1980 p 88-90  
Report Number(s): INIS-mf-6528; CONF-8011117-  
Language: Hungarian

2/3/260 (Item 3 from file: 103)  
00778877 ERA-06-027654; EDB-81-087140  
Title: Rapid in situ hydrolysis and retention of decomposition products of organophosphorus compounds by reaction ion exchange beds  
Author(s): Janauer, G.E.; Costello, M.; Stude, H.; Chan, P.; Zabarnick, S.; Hemphill, D.D. (ed.)  
Affiliation: Army Armament Research and Development Command, Aberdeen Proving Ground, MD  
Title: Trace substances in environmental health. XIV  
Conference Title: 14. annual conference on trace substances in environmental health

Conference Location: Columbia, MO, USA    Conference Date: 2 Jun 1980  
Publisher: University of Missouri, Columbia, MO  
Publication Date: 1980    p 425-435  
Report Number(s): CONF-800643-  
Language: English

2/3/261        (Item 1 from file: 315)  
266147 CEBA Accession No.: 21-12-016060    DOCUMENT TYPE: Journal  
New decontaminants: total, rapid and mild destruction of insecticides and  
nerve gases by peracids  
Orig. Title: Destruction chimique totale, rapide et douce d'insecticides et  
de toxiques de guerre par les peracides  
AUTHOR: Lion, C.; Charvy, C.; Hedayatullah, M.; Bauer, P.;  
Sentenac-Roumanou, H.; Despagne, B.; Delmas, G.  
CORPORATE SOURCE: Universite de Paris, Direction des Recherches Etudes et  
Techniques, Centre d'Etudes du BouchVert-le-Petit; , Paris-Armees; ,  
France; France;  
JOURNAL: Bulletin des Societes Chimiques Belges, Volume: 99, Issue: 2  
, Page(s): 127-133  
CODEN: BSCBAG        ISSN: 0037-964  
PUBLICATION DATE: 1990 (900000)        LANGUAGE: French

2/3/262        (Item 2 from file: 315)  
242012 CEBA Accession No.: 20-00-012915    DOCUMENT TYPE: Journal  
Enzymes to degrade pesticides and nerve gases.  
JOURNAL: Bioprocess. Technol., Volume: 11, Issue: 10, Page(s): 4  
CODEN: QQQQQQ        ISSN: 08855625  
PUBLICATION DATE: Oct 1989 (891000)        LANGUAGE: English

2/3/263        (Item 3 from file: 315)  
073831 CEBA Accession No.: 11-04-001544    DOCUMENT TYPE: Miscellaneous  
Reductive treatment of hazardous industrial wastes  
AUTHOR: sweeny, k h  
JOURNAL: AICHE MEETING PROG, 73RD ANNUAL MEETING, 16-20 nov 1980. |  
LANGUAGE: English

2/3/264        (Item 1 from file: 16)  
02306072        DIALOG FILE 16: PTS PROMT  
Enzyme offers clue to pesticide resistance  
Enzyme produced by soil bacterium can break down toxins in pesticides  
New Scientist    September 9, 1989    p. 42  
ISSN: 0028-6664

2/3/265        (Item 2 from file: 16)  
02282731        DIALOG FILE 16: PTS PROMT  
Bacteria said to block effects of nerve gas  
Bacteria capable of neutralizing nerve gases and similar poisons have  
been developed  
New York Times (National Edition)    September 12, 1989    p. 22  
ISSN: 0362-4331

2/3/266        (Item 3 from file: 16)  
02266442        DIALOG FILE 16: PTS PROMT  
Enzymes to beat chemical weapons  
Bacterial enzyme that could degrade organophosphorus neurotoxins in  
chemical weapons is being studied  
Chemical Week    August 23, 1989    p. 59

2/3/267 (Item 4 from file: 16)  
00363292 DIALOG FILE 16: PTS PROMT  
Squid nerves contain an enzyme that catalytically detoxifies organophosphorus compounds, including some nerve gases, according to Dr FCG Hoskin at Illinois Institute of Technology.

Chemical & Engineering News October 10, 1977 p. 31,331

2/3/268 (Item 1 from file: 117)  
651090 W93-02807  
Evaluation of Organophosphorus Insecticide Hydrolysis by Conventional Means and Reactive Ion Exchange  
Dowling, K. C.; Lemley, A. T.  
Cornell Univ., Ithaca, NY. Graduate Field of Environmental Toxicology.  
IN: Pesticide Waste Management: Technology and Regulation. From a symposium sponsored by the Division of Agrochemicals at the Fourth Chemical Congress of North America, New York, New York, 25-30 August 1991. American Chemical Society, Washington, DC. 1992. p 177-194, 6 fig, 3 tab, 15 ref.,

2/3/269 (Item 2 from file: 117)  
620782 W90-09463  
Organophosphate Acid Anhydrases, Hydrolytic Enzymes for Organophosphate Detoxification  
Landis, W. G.; Chester, N. A.; Durst, H. D.; Mueller, A. J.; Dumas, D. P.  
Aberdeen Research and Development Center, Aberdeen Proving Ground, MD.  
IN: Pesticides in Terrestrial and Aquatic Environments. Proceedings of a National Research Conference, May 11-12, 1989. Virginia Water Resources Research Center, Blacksburg, VA. 1989. p 270-283, 3 fig, 2 tab, 30 ref.,

2/3/270 (Item 3 from file: 117)  
619625 W90-08306  
Chemical Reactions of Organic Compounds on Clay Surfaces  
Soma, Y.; Soma, M.  
National Inst. for Environmental Studies, Ibaraki (Japan).  
Environmental Health Perspectives EVHPAZ, Vol. 83, p 205-214, November 1989. 2 fig, 86 ref.,

2/3/271 (Item 1 from file: 203)  
1472372 AGRIS No: 93-075845  
Role of glutathione s-transferase in organophosphorus resistance of diamondback moth larvae  
Sun, C.N.; Kao, C.H.; Chiang, F.M. (National Chung-Hsing Univ., Taichung (Taiwan). Dept. of Entomology)  
3. International Conference on Plant Protection in the Tropics, Genting Highlands, Pahang (Malaysia), 20-23 Mar 1990  
Proceedings of the 3rd International Conference on Plant Protection in the Tropics: volume III  
Malaysian Plant Protection Society (Malaysia)  
Kuala Lumpur (Malaysia) : Malaysian Plant Protection Society, 1990, p. 139-145  
Language: English Summary Language: English

2/3/272 (Item 2 from file: 203)  
0706094 AGRIS No: 84-020585  
Persistence of organophosphorus pesticides in aquatic environments. Coordinated programme on isotope-tracer-aided research and monitoring on agricultural residue -biological interactions in aquatic environment; Final report for the period 1 July 1976 - 31 July 1982

Horvath, L. (Magyar Tudomanyos Akademia, Budapest. Izotopintezete)  
International Atomic Energy Agency, Vienna (Austria)  
, Aug 1982, 8 p.  
Report No : IAEA-R--1793-F  
Language: English

2/3/273 (Item 3 from file: 203)

0362282 AGRIS No: 470937

Degradation, non-enzymatic degradation and biological effectiveness of  
aqueous preparation of some organophosphorus insecticides Dursban,  
Cyolane, Gardona

El-Tantawy, M.A.; Guirguis, M.W.; Hussein, N.M. (Zagazig Univ. (Egypt).  
Faculty of Agriculture)

The Fourth Conference of Pest Control, Cairo, Egypt, 30 Sep 1978

Proceedings of the Fourth Conference of Pest Control

Academy of Scientific Research and Technology and National Research  
Centre

Cairo (Egypt) : National Research Centre, 1978, p. 546-554

Language: English Summary Language: English

2/3/274 (Item 1 from file: 302)

313201003 Text

Chapter CH=31320

Type TY=313201

Unit UN=313201001

Chapter Title: Insect Control Technology

Text continued from 313201002

Section Heading: INSECTICIDE FORMULATION (continued)

2/3/275 (Item 2 from file: 302)

313201019 Text

Chapter CH=31320

Type TY=313201

Unit UN=313201002

Chapter Title: Insect Control Technology

Text starts in 313201004

Text continued from 313201018

Text continues in 313201020

Section Heading: Insecticides (continued)

2/3/276 (Item 3 from file: 302)

313201027 Text

Chapter CH=31320

Type TY=313201

Unit UN=313201002

Chapter Title: Insect Control Technology

Text starts in 313201004

Text continued from 313201026

Text continues in 313201028

Section Heading: Insecticides (continued)

2/3/277 (Item 4 from file: 302)

321171001 Text

Chapter CH=32117

Type TY=321171

Unit UN=321171001



Chapter Title: Soil Chemistry of Pesticides

Text continues in 321171002

Section Heading: Insecticides

2/3/278 (Item 1 from file: 51)

00238882 83-06-a0340 SUBFILE: FSTA

Recent developments in food analysis.

Baltes, W.; Czedik-Eysenberg, P. B.; Pfannhauser, W. (Editors)

European Federation of Chemical Societies (1st Food Analysis Symposium);  
Huber, J. F. K.; Rougerau, A.; Guiller, A.; Gore, J.; Person, O.; Toth, L.;  
Wittkowski, R.; Engst, R.; Boniforti, L.; Lorusso, S.; Abrahamsson, S.;  
Stan, H. J.; Kellner, G.; Fraisse, D.; Maquin, F.; Tabet, J. C.; Chaveron,  
H.; Luethy, J.; Daussant, J.; Righetti, P. G.; Bosisio, A. B.; Mercier, C.;  
Mikes, O.

European Federation of Chemical Societies

1982 , xii + 500pp.

PUBLISHER: Weinheim, Federal Republic of Germany; Verlag Chemie. Price  
DM98.00

LANGUAGE: English

2/3/279 (Item 2 from file: 51)

00074923 74-01-m0051 SUBFILE: FSTA

(Metabolic exchange reactions between cereals and insecticides during  
storage of cereals.)

Metabolitische Austauschreaktionen von Enzymen und Insektiziden waehrend  
der Getreidelagerung.

Meuser, F.

Tech. Univ., Seestrassse 11, Postfach 650480, D-1, Berlin 65, Federal  
Republic of Germany

Annales de Technologie Agricole 1972 , 21 (4) 515-533

LANGUAGE: German SUMMARY LANGUAGE: French; English

2/3/280 (Item 3 from file: 51)

00010048 69-11-c0483 SUBFILE: FSTA

Degradation and anticarboxylesterase activity of disulphoton and phorate  
after 60Co gamma irradiation.

Grant, D. L.; Sherwood, C. R.; McCully, K. A.

Res. Lab., Food and Drug Directorate, Dept. of Nat. Health and Welfare,  
Ottawa 3, Ontario, Canada

Journal of the Association of Official Analytical Chemists 1969 , 52  
(4) 805-11

LANGUAGE: English

2/3/281 (Item 1 from file: 60)

09098214

PROJ NO: TEX06837 AGENCY : CSRS TEX

PROJ TYPE: HATCH

START: 24 JUN 91 TERM: 23 JUN 96

FY: 1992

INVEST: WILD J R

BIOCHEMISTRY & BIOPHYSICS

TEXAS A&M UNIV

COLLEGE STATION TEXAS 77843

ENZYMATIC DECONTAMINATION OF ORGANOPHOSPHORUS CHEMICAL AGENTS

OBJECTIVES: Develop the potential of the broad spectrum organophosphorus  
hydrolase (OPH) encoded by the opd gene of Pseudomonas diminuta and  
Flavobacterium ATCC23855. 1) Produce native and mutant enzymes for x-ray  
crystallographic analysis. 2) Enhance enzyme production using genetic  
expression systems. 3) Evaluate the various molecular forms of OPH. 4)

Modify the hydrophobic leader sequence. 5) Modify OPH to enhance stability, specificity and metal binding. 6) Immobilize phosphotriesterase to a solid support for use in a bioreactor.

PRIMARY HEADINGS: R214 Protection from Pollution; A5000 Biological Efficiency of Plants, Animals; C6500 Invertebrates; F0313 Biology-Molecular-Other

2/3/282 (Item 2 from file: 60)

09093632

PROJ NO: NYC-329423 AGENCY : CSRS NY.C

PROJ TYPE: HATCH REGIONAL PROJ NO: W 00045

START: 01 OCT 89 TERM: 30 SEP 94 FY: 1992

INVEST: LEMLEY A T

TEXTILES AND APPAREL

CORNELL UNIVERSITY

ITHACA NEW YORK 14853

PERSISTENCE OF PESTICIDE RESIDUES: TRANSPORT, FATE AND EFFECTS

OBJECTIVES: Determine the mechanisms of post-application transport and their effects on the persistence of pesticide residues. Determine the chemical and biochemical processes that affect the persistence of pesticide residues and their transformation products in plants, animals, and other environmental compartments.

PRIMARY HEADINGS: R901 Alleviation of Soil, Water, Air Pollution; A4830 Protection Against Pollutants; C0200 Water; F0114 Biochemistry and Biophysics-Other

2/3/283 (Item 3 from file: 60)

09078655

PROJ NO: CA-R\*-ENT-3744-AH AGENCY : CSRS CALB

PROJ TYPE: ANIMAL HEALTH

START: 06 OCT 88 TERM: 30 SEP 93 FY: 1992

INVEST: GILL S S; FUKUTO T R

ENTOMOLOGY

UNIVERSITY OF CALIFORNIA

RIVERSIDE CALIFORNIA 92521

EFFECT OF AGRICULTURAL CHEMICALS AND NATURAL TOXINS CONTAMINATING THE FOOD OF DOMESTIC ANIMALS

OBJECTIVES: Focus will be placed on the examination and mode of action of toxic impurities present in technical insecticides and the determination of the distribution, characterization and analyses of epoxide metabolizing enzymes. Specifically: Elucidate mechanism of delayed toxicity with respect to the toxicology of organophosphorus insecticide impurities. Identify primary bio-chemical lesion responsible for delayed toxicity. Purify and characterize the epoxide hydrolase activity in the mitochondrial/peroxisomal fraction of mouse liver.

PRIMARY HEADINGS: R213 Protect Animals from Toxins, Poisons; A4880 Protection Against Allergens, Toxins; C6800 Animals (Vertebrates); F1526 Chemistry-Organic; F0110 Biochemistry and Biophysics-Animal

2/3/284 (Item 1 from file: 340)

2314527 9230178

C/ ENZYME DETERGENT FORMULATION AND METHODS OF DETOXIFYING TOXIC

ORGANOPHOSPHOROUS ACID COMPOUNDS; LAUNDRY DETERGENT AND CELL-FREE

## EXTRACT OF ESCHERICHIA COLI; HYDROLYSIS

Inventors: Akkara Joseph A (US); Kaplan Arthur M (US); Kaplan David L (US)

Assignee: U S of America Army Secretary of Assignee Code: 86528

	Patent Number	Issue Date	Applic Number	Applic Date
Patent:	US 5169554	921208	US 417614	891004
Priority Applic:			US 417614	891004

2/3/285 (Item 2 from file: 340)

2041719 9009828

C/ COMPOSITIONS OF MATTER COMPRISING DIALKYL-(N,N-DIALKYL CARBAMOYLMETHYL)  
PHOSPHINE OXIDES

Inventors: Kem Kenneth M (US)

Assignee: Occidental Chemical Co Assignee Code: 03133

	Patent Number	Issue Date	Applic Number	Applic Date
Patent:	US 4922012	900501	US 570181	840112
Cont.-in-part of:	US 4396556		US 239731	810302
	ABANDONED		US 295300	870824
Priority Applic:			US 570181	840112
			US 239731	810302
			US 295300	870824

2/3/286 (Item 3 from file: 340)

1465892 8310299

C/ PROCESS OF PREPARING ORGANOPHOSPHORUS COMPOUNDS BY PHASE TRANSFER  
CATALYSIS; REACTING A 2-HALOACETAMIDE WITH A PHOSPHONATE, PHOSPHINATE,  
OR PHOSPHINE OXIDE IN A TWO-PHASE LIQUID SYSTEM

Inventors: KEM KENNETH M (US)

Assignee: OCCIDENTAL RESEARCH CORP Assignee Code: 01300

	Patent Number	Issue Date	Applic Number	Applic Date
Patent:	US 4396556	830802	US 239731	810302
	(Cited in 003 later patents)			
Priority Applic:			US 239731	810302

2/3/287 (Item 1 from file: 351)

009305483 WPI Acc No: 92-432892/52

XRAM Acc No: C92-192142

Enzyme detergent compsn. for detoxifying organophosphorus acid cpds. -  
comprises laundry detergent and E. coli extract contg. organophosphorus  
acid anhydrolase

Patent Assignee: (USSA ) US SEC OF ARMY

Author (Inventor): AKKARA J A; KAPLAN A M; KAPLAN D L

Patent Family:

CC Number	Kind	Date	Week	
US 5169554	A	921208	9252	(Basic)

Priority Data (CC No Date): US 417614 (891004)

2/3/288 (Item 2 from file: 351)

008212400 WPI Acc No: 90-099401/13

XRAM Acc No: C90-043688

Prod. of parathion hydrolase - using transformed microorganism contg.  
recombinant plasmid coding for processed parathion hydrolase

Patent Assignee: (AMGE-) AMGEN INC

Author (Inventor): SERDAR C M; MURDOCK D

Patent Family:

CC Number	Kind	Date	Week	
WO 9002177	A	900308	9013	(Basic)
EP 394393	A	901031	9044	
JP 3501086	W	910314	9117	

Priority Data (CC No Date): US 312503 (890217); US 237255 (880826)

Applications (CC,No,Date): WO 89US3721 (890825); EP 89901534 (890825); JP 89509834 (890825)

2/3/289 (Item 3 from file: 351)

007849283 WPI Acc No: 89-114395/15

XRAM Acc No: C89-050661

XRPX Acc No: N89-087354

Article for inactivating toxic materials, e.g. organophosphorus cpds. -  
comprises solid carrier bearing target ligand-binding receptor and  
ligand-degrading receptor, pref. enzyme

Patent Assignee: (LITT ) LITTLE A D INC

Author (Inventor): TAYLOR R F

Patent Family:

CC Number	Kind	Date	Week	
WO 8902920	A	890406	8915	(Basic)
EP 381701	A	900816	9033	

Priority Data (CC No Date): US 105312 (871005)

Applications (CC,No,Date): WO 88UO3422 (881004); EP 88909691 (8810U4)

2/3/290 (Item 1 from file: 636)

01745242 DIALOG FILE 636: PTS NEWSLETTER DATABASE

IB PATENT UPDATE: CLEANING PREPARATIONS

Industrial Bioprocessing January 00, 1993 V. 15 NO. 1

WORD COUNT: 124

PUBLISHER: Technical Insights, Inc.

2/3/291 (Item 1 from file: 19)

908728

Journal: Chem Wkly 37 (23) p. 109 Date: 920211

ISSN: 0045-6500 CODEN: CHWEBQ

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2/3/292 (Item 1 from file: 109)

872191 NSA-18-005208

BULLETIN OF THE CHEMICAL SOCIETY

Mladenovic, M. ed.

Publication Date: nd 125 p.

Primary Report No.: OTS-62-11757

Note: Translation of Glasnik Hemiskog Drustva, Beograd, 27: No. 2-3,  
(1962)

2/3/293 (Item 1 from file: 110)

133033 56.9 SO3 ID NO: 70-9033769

Soil degradation of malathion, a phosphorodithioate insecticide.  
[Hydrolysis, adsorption, catalysis, organophosphorus compounds]

Konrad, J G; Chesters, G; Armstrong, D E

Soil Sci Soc Amer Proc 33 (2): 259-262. Mar/Apr 1969

2/3/294 (Item 1 from file: 185)

0541583 Vol 121 Sec 13F Cit 00357

ISOLATION AND CHARACTERIZATION OF AN ESTERASE OF TRIATOMA INFESTANS WITH  
A CRITICAL ROLE IN THE DEGRADATION OF ORGANOPHOSPHORUS ESTERS.

DE MALKENSON, N.C.; WOOD, E.J.; ZERBA, E.N.

INSECT BIOCHEM. 14(4) 1984: 481-486, ILLUSTR.

2/3/295 (Item 1 from file: 245)

016594 BK001154

Organophosphorus Pesticides. In -- Analysis of Pesticides in Water; Alfred S.Y. Chau, B.K. Afghan, and James W. Robinson, eds.

Chau, Alfred S.Y. ; Ripley, Brian D. ; Kawahara, Fred

Volume II, p 61-154, 1982

ISBN: 0-8493-5211-8 (Vol. 2) LC: 81-12291

Availability: CRC Press, Inc.

331 references, tables, figures

Language: English

2/3/296 (Item 1 from file: 295)

00163749 WTI No.: 86-0017032

Translated Title: Immobilized enzymes and their biomedical applications. III. Detoxifying action of immobilized cholinesterase on organophosphorus pesticides (DDVP)

Author: LI N; LU G; SUN Z

Translation Year: 1985, 18p.

Translating Organization (Availability): NTC -- National Translations Center. The Library of Congress, The National Translations Center, Washington DC 20540, U.S.A. (NTC 85-13471)

Translation Language: English

Translated from:

Source Journal: Tianjin Yiyao, v. 9

Original Publication Year: 1981, p. 515-520

Original Language: Chinese

2/3/297 (Item 1 from file: 305)

052448 AA Accession No.: 46-06-C-00015 DOC. TYPE: Journal

Preliminary study of a potential post-column photo-degradation reaction scheme for the detection of organophosphorus compounds.

AUTHOR: Priebe, S. R.; Howell, J. A.

CORPORATE SOURCE: Dept. Chem., Western Michigan Univ., Kalamazoo, MI 49008, USA

JOURNAL: Anal. Lett., Volume: 16, Issue: A15, Page(s): 1219-1233

CODEN: ANALBP ISSN: 0003-2719

PUBLICATION DATE: Oct 1983 (831000) LANGUAGE: English

2/3/298 (Item 1 from file: 322)

207101016 Text

Chapter CH=20710

Type TY=207101

Unit UN=207101002

Chapter Title: Flammability

Text starts in 207101007

Text continued from 207101015

Text continues in 207101017

Section Heading: Materials (continued)

2/3/299 (Item 1 from file: 345)

11297060

Basic Patent (No,Kind,Date): US 5169554 A 921208 <No. of Patents: 001>

ENZYME DETERGENT FORMULATION AND METHODS OF DETOXIFYING TOXIC ORGANOPHOSPHOROUS ACID COMPOUNDS (English)

Patent Assignee: US ARMY (US)

Author (Inventor): AKKARA JOSEPH A (US); KAPLAN DAVID L (US); KAPLAN ARTHUR

M (US)  
National Class: \*252174120; 252156000; 252173000; 252174230; 252174240;  
252DIG012; 252DIG014; 435264000  
IPC: \*C11D-017/00; C11D-007/06; C11D-007/12  
CA Abstract No: 118(10)083339W  
Derwent WPI Acc No: C 92-432892  
Language of Document: English  
Patent Family:  
Patent No Kind Date Applic No Kind Date  
US 5169554 A 921208 US 417614 A 891004 (BASIC)  
Priority Data (No,Kind,Date):  
US 417614 A 891004

2/3/300 (Item 1 from file: 669)

00481262

Draft Report: Principles of Neurotoxicity Risk Assessment  
Vol. 58, No. 148  
Part II  
58 FR 41556  
Wednesday, August 04, 1993

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03dec93 12:38:48 User214460 Session D313.3  
\$1.58 0.022 Hrs File156  
\$28.50 95 Type(s) in Format 3  
\$28.50 95 Types  
\$30.08 Estimated cost File156  
\$3.36 0.035 Hrs File5  
\$21.60 24 Type(s) in Format 3  
\$21.60 24 Types  
\$24.96 Estimated cost File5  
\$1